Berliner

Astronomisches Jahrbuch

für

1 9 3 2

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157. Jahrgang

Herausgegeben von dem

Astronomischen Rechen-Institut

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1930

Astronomisches Rechen-Institut

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Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Welt-Zeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets,*
Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptune.*

Als Sonnenhalbmesser in der mittleren Entfernung ist 16′ 1″.50 angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert 15′ 59″.63 zugrunde.

Für den Mond:

Tables of the Motion of the Moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser $r_{☾}$ ist aus der Äquatorial-Horizontalparallaxe $p_{☾}$ gerechnet nach der Formel

$$r_{☾} = 0.272469\, p_{☾} + 1''.50,$$

für die Finsternisse nach $\sin r_{☾} = 0.272274 \sin p_{☾}$.

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. Bd. 199, 263) angenommen: $J = 1^\circ 32' 20''$.

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Rechen-Instituts).

Die Sterngrößen sind der »Revised Harvard Photometry (Harvard Annals, vol. 50)«, die Sternspektra dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. 28, 67)
Die Nutations-Konstante . . . . 9".21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. 15, 241)
Die Aberrations-Konstante . . . . 20".47
Die Sonnen-Parallaxe . . . . . . 8".80
Die Abplattung der Erde . . . 1 : 297.0

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den neuen Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. Struve ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Der Inhalt des Jahrbuchs hat gegen das Vorjahr keine Änderungen erfahren.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens der American Ephemeris and Nautical Almanac, Washington, des Nautical Almanac Office, London, und des Bureau des Longitudes, Paris, zur Verfügung gestellt. Die Ephemeride des Kraters Mösting A. ist von dem Institut Astronomique in Leningrad berechnet worden.

Die Schriftleitung des Astronomischen Jahrbuchs für 1932 lag in den Händen von Herrn Kohl; an den verschiedenen Arbeiten beteiligten sich außerdem die Herren Stichtenoth †, Heinemann, Gondolatsch und Hügeler.

Astronomisches Rechen-Institut.

Inhalt

Zeit- und Festrechnung 1932

Das Jahr 1932 entspricht dem
Jahr 6645 der Julianischen Periode und dem
Jahr 7440 — 7441 der Byzantinischen Ära

Gregorianischer Kalender

Goldene Zahl	14
Epakte	XXII
Sonnenzirkel	9
Sonntagsbuchstabe	C B

Septuagesima	24. Jan.
Aschermittwoch	10. Febr.
I. Quatember	17. Febr.
Ostersonntag	27. März
Himmelfahrt	5. Mai
Pfingstsonntag	15. Mai
II. Quatember	18. Mai
III. Quatember	21. Sept.
I. Advent	27. Nov.
IV. Quatember	14. Dez.

Kalender der Mohammedaner

1350 (Gemeinjahr von 354 Tagen)

Ramadân	1	1932	Jan.	10
Schewwâl	1	»	Febr.	9
Dsû 'l-kade	1	»	März	9
Dsû 'l-hedsche	1	»	April	8

1351 (Gemeinjahr von 354 Tagen)

Moharrem	1	1932	Mai	7
Safar	1	»	Juni	6
Rebî-el-awwel	1	»	Juli	5
Rebî-el-accher	1	»	Aug.	4
Dschemâdi-el-awwel	1	»	Sept.	2
Dschemâdi-el-accher	1	»	Okt.	2
Redscheb	1	»	Okt.	31
Schabân	1	»	Nov.	30
Ramadân	1	»	Dez.	29

Kalender der Juden

5692 (Schaltjahr von 385 Tagen)

Monat	Tag	Fest	Jahr	Monat	Tag
Schebat	1	. . . .	1932	Jan.	9
Adar	1	. . . .	»	Febr.	8
»	14	Klein-Purim	»	»	21
Veadar	1	. . . .	»	März	9
»	13	Fasten-Esther	»	»	21
»	14	Purim	»	»	22
»	15	Schuschan-Purim	»	»	23
Nisan	1	. . . .	»	April	7
»	15	*Passah-Anfang	»	»	21
»	16	*Zweites Fest	»	»	22
»	21	*Siebentes Fest	»	»	27
»	22	*Achtes Fest	»	»	28
Ijar	1	. . . .	»	Mai	7
»	18	Lag-B'omer	»	»	24
Sivan	1	. . . .	»	Juni	5
»	6	*Wochenfest	»	»	10
»	7	*Zweites Fest	»	»	11
Thamuz	1	. . . .	»	Juli	5
»	17	Fasten. Eroberung Jerusalems . .	»	»	21
Ab	1	. . . .	»	Aug.	3
»	9	Fasten. Tempelverbrennung . . .	»	»	11
Elul	1	. . . .	»	Sept.	2

5693 (Gemeinjahr von 355 Tagen)

Monat	Tag	Fest	Jahr	Monat	Tag
Tischri	1	*Neujahrsfest	1932	Okt.	1
»	2	*Zweites Fest	»	»	2
»	3	Fasten-Gedaljah	»	»	3
»	10	*Versöhnungsfest	»	»	10
»	15	*Laubhüttenfest	»	»	15
»	16	*Zweites Fest	»	»	16
»	21	Palmenfest	»	»	21
»	22	*Laubhüttenende	»	»	22
»	23	*Gesetzesfreude	»	»	23
Marcheschwan	1	. . . .	»	»	31
Kislev	1	. . . .	»	Nov.	30
»	25	Tempelweihe	»	Dez.	24
Tebet	1	. . . .	»	»	30

Die mit * bezeichneten Festtage werden streng gefeiert.

Astronomische Zeichen und Abkürzungen

Bezeichnung
der
Wochentage

☉ Sonntag
☾ Montag
♂ Dienstag
☿ Mittwoch
♃ Donnerstag
♀ Freitag
♄ Sonnabend

Adspekten

☌ Konjunktion
□ Quadratur
☍ Opposition

Mondphasen

● Neumond
◐ Erstes Viertel
○ Vollmond
◑ Letztes Viertel

☊ Aufsteigender } Knoten
☋ Absteigender } Knoten

Zeichen

des Tierkreises und der Himmelskörper

♈ Widder . . .	0 Grad	
♉ Stier	30 »	☉ Sonne
♊ Zwillinge . .	60 »	☾ Mond
♋ Krebs	90 »	☿ Merkur
♌ Löwe	120 »	♀ Venus
♍ Jungfrau . .	150 »	♁ Erde
♎ Waage . . .	180 »	♂ Mars
♏ Skorpion . .	210 »	♃ Jupiter
♐ Schütze . . .	240 »	♄ Saturn
♑ Steinbock . .	270 »	♅ Uranus
♒ Wassermann	300 »	♆ Neptun
♓ Fische . . .	330 »	

Sonne, Mond, Große Planeten

1932

Sonne 1932

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1932		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan. 0	Do	+ 2 29.06	28.91	18 36 19.14	4 25.47	−23 11 16.5	4 4.3	71.13	16 17.84
1	Fr	2 57.97	28.65	18 40 44.61	4 25.21	23 7 12.2	4 32.0	71.09	16 17.85
2	Sa	3 26.62	28.37	18 45 9.82	4 24.93	23 2 40.2	4 59.6	71.05	16 17.85
3	St	3 54.99	28.05	18 49 34.75	4 24.61	22 57 40.6	5 27.1	71.01	16 17.85
4	Mo	4 23.04	27.69	18 53 59.36	4 24.25	22 52 13.5	5 54.5	70.97	16 17.85
5	Di	4 50.73	27.31	18 58 23.61	4 23.87	22 46 19.0	6 21.7	70.91	16 17.84
6	Mi	+ 5 18.04	26.89	19 2 47.48	4 23.45	−22 39 57.3	6 48.7	70.85	16 17.82
7	Do	5 44.93	26.44	19 7 10.93	4 23.00	22 33 8.6	7 15.5	70.79	16 17.81
8	Fr	6 11.37	25.95	19 11 33.93	4 22.51	22 25 53.1	7 42.0	70.73	16 17.78
9	Sa	6 37.32	25.44	19 15 56.44	4 21.99	22 18 11.1	8 8.4	70.67	16 17.76
10	St	7 2.76	24.89	19 20 18.43	4 21.45	22 10 2.7	8 34.5	70.60	16 17.73
11	Mo	7 27.65	24.32	19 24 39.88	4 20.88	22 1 28.2	9 0.3	70.52	16 17.70
12	Di	+ 7 51.97	23.72	19 29 0.76	4 20.28	−21 52 27.9	9 25.8	70.45	16 17.66
13	Mi	8 15.69	23.10	19 33 21.04	4 19.66	21 43 2.1	9 51.0	70.36	16 17.62
14	Do	8 38.79	22.46	19 37 40.70	4 19.01	21 33 11.1	10 16.0	70.28	16 17.57
15	Fr	9 1.25	21.78	19 41 59.71	4 18.34	21 22 55.1	10 40.7	70.19	16 17.52
16	Sa	9 23.03	21.10	19 46 18.05	4 17.66	21 12 14.4	11 5.0	70.10	16 17.47
17	St	9 44.13	20.40	19 50 35.71	4 16.96	21 1 9.4	11 29.1	70.01	16 17.41
18	Mo	+10 4.53	19.68	19 54 52.67	4 16.24	−20 49 40.3	11 52.7	69.91	16 17.34
19	Di	10 24.21	18.95	19 59 8.91	4 15.50	20 37 47.6	12 16.1	69.82	16 17.27
20	Mi	10 43.16	18.20	20 3 24.41	4 14.76	20 25 31.5	12 39.1	69.72	16 17.20
21	Do	11 1.36	17.44	20 7 39.17	4 14.00	20 12 52.4	13 1.8	69.62	16 17.11
22	Fr	11 18.80	16.68	20 11 53.17	4 13.24	19 59 50.6	13 24.1	69.51	16 17.03
23	Sa	11 35.48	15.91	20 16 6.41	4 12.46	19 46 26.5	13 46.2	69.41	16 16.93
24	St	+11 51.39	15.13	20 20 18.87	4 11.69	−19 32 40.3	14 7.8	69.30	16 16.83
25	Mo	12 6.52	14.35	20 24 30.56	4 10.91	19 18 32.5	14 29.1	69.19	16 16.73
26	Di	12 20.87	13.56	20 28 41.47	4 10.12	19 4 3.4	14 50.1	69.08	16 16.61
27	Mi	12 34.43	12.78	20 32 51.59	4 9.34	18 49 13.3	15 10.7	68.97	16 16.50
28	Do	12 47.21	11.99	20 37 0.93	4 8.55	18 34 2.6	15 30.9	68.85	16 16.37
29	Fr	12 59.20	11.20	20 41 9.48	4 7.75	18 18 31.7	15 50.9	68.74	16 16.24
30	Sa	+13 10.40	10.41	20 45 17.23	4 6.96	−18 2 40.8	16 10.3	68.63	16 16.11
31	St	13 20.81	9.60	20 49 24.19	4 6.16	17 46 30.5	16 29.4	68.52	16 15.97
Febr. 1	Mo	13 30.41	8.80	20 53 30.35	4 5.36	17 30 1.1	16 48.2	68.40	16 15.83
2	Di	13 39.21	8.00	20 57 35.71	4 4.56	17 13 12.9	17 6.5	68.29	16 15.68
3	Mi	13 47.21	7.19	21 1 40.27	4 3.75	16 56 6.4	17 24.4	68.17	16 15.53
4	Do	13 54.40	6.39	21 5 44.02	4 2.94	16 38 42.0	17 41.8	68.05	16 15.37
5	Fr	+14 0.79	5.57	21 9 46.96	4 2.13	−16 21 0.2	17 58.9	67.94	16 15.22
6	Sa	14 6.36	4.76	21 13 49.09	4 1.31	16 3 1.3	18 15.5	67.82	16 15.06
7	St	14 11.12	3.95	21 17 50.40	4 0.51	15 44 45.8	18 31.7	67.71	16 14.90
8	Mo	14 15.07	3.15	21 21 50.91	3 59.70	15 26 14.1	18 47.4	67.60	16 14.73
9	Di	14 18.22	2.34	21 25 50.61	3 58.90	15 7 26.7	19 2.7	67.48	16 14.56
10	Mi	+14 20.56		21 29 49.51		−14 48 24.0		67.37	16 14.39

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1932.0 Länge		Breite	log *R*		Aufgang in {+50° Breite, 0h Länge	Untergang in {+50° Breite, 0h Länge
1932	2426	h m s	in 0.001 s		° ′ ″	′ ″	″			h m	h m
Jan. 0	706.5	6 33 50.084	+ 16	+ 2	278 20 47.8	61 9.1	−0.07	9.992 6798	36	7 59	16 7
1	707.5	6 37 46.643	20	− 6	279 21 56.9	61 9.6	−0.19	9.992 6762	14	7 59	16 8
2	708.5	6 41 43.202	24	−11	280 23 6.5	61 10.0	−0.31	9.992 6748	7	7 59	16 9
3	709.5	6 45 39.761	27	−14	281 24 16.5	61 10.3	−0.41	9.992 6755	27	7 59	16 10
4	710.5	6 49 36.320	31	−14	282 25 26.8	61 10.4	−0.50	9.992 6782	46	7 59	16 11
5	711.5	6 53 32.879	35	−10	283 26 37.2	61 10.7	−0.57	9.992 6828	63	7 58	16 12
6	712.5	6 57 29.438	+ 38	− 3	284 27 47.9	61 10.6	−0.60	9.992 6891	80	7 58	16 13
7	713.5	7 1 25.997	42	+ 4	285 28 58.5	61 10.6	−0.60	9.992 6971	96	7 58	16 14
8	714.5	7 5 22.556	45	+11	286 30 9.1	61 10.4	−0.57	9.992 7067	113	7 58	16 16
9	715.5	7 9 19.114	49	+16	287 31 19.5	61 10.2	−0.52	9.992 7180	129	7 57	16 17
10	716.5	7 13 15.673	52	+18	288 32 29.7	61 9.8	−0.44	9.992 7309	146	7 57	16 18
11	717.5	7 17 12.232	55	+16	289 33 39.5	61 9.3	−0.34	9.992 7455	164	7 56	16 19
12	718.5	7 21 8.790	+ 58	+12	290 34 48.8	61 8.7	−0.22	9.992 7619	183	7 56	16 21
13	719.5	7 25 5.349	62	+ 7	291 35 57.5	61 8.2	−0.10	9.992 7802	202	7 55	16 22
14	720.5	7 29 1.907	65	0	292 37 5.7	61 7.6	+0.03	9.992 8004	223	7 55	16 24
15	721.5	7 32 58.466	68	− 6	293 38 13.3	61 6.8	+0.16	9.992 8227	244	7 54	16 25
16	722.5	7 36 55.024	71	−12	294 39 20.1	61 6.1	+0.29	9.992 8471	266	7 53	16 26
17	723.5	7 40 51.582	73	−15	295 40 26.2	61 5.3	+0.39	9.992 8737	289	7 52	16 28
18	724.5	7 44 48.140	+ 76	−16	296 41 31.5	61 4.6	+0.47	9.992 9026	313	7 52	16 29
19	725.5	7 48 44.698	79	−14	297 42 36.1	61 3.7	+0.54	9.992 9339	338	7 51	16 31
20	726.5	7 52 41.256	81	−10	298 43 39.8	61 2.9	+0.58	9.992 9677	364	7 50	16 33
21	727.5	7 56 37.814	84	− 4	299 44 42.7	61 2.0	+0.59	9.993 0041	391	7 49	16 34
22	728.5	8 0 34.372	86	+ 2	300 45 44.7	61 1.3	+0.58	9.993 0432	417	7 48	16 36
23	729.5	8 4 30.930	89	+ 9	301 46 46.0	61 0.5	+0.53	9.993 0849	445	7 47	16 37
24	730.5	8 8 27.487	+ 91	+12	302 47 46.5	60 59.7	+0.46	9.993 1294	473	7 46	16 39
25	731.5	8 12 24.045	93	+12	303 48 46.2	60 59.1	+0.37	9.993 1767	500	7 45	16 40
26	732.5	8 16 20.602	95	+10	304 49 45.3	60 58.4	+0.25	9.993 2267	526	7 43	16 42
27	733.5	8 20 17.160	97	+ 4	305 50 43.7	60 57.7	+0.13	9.993 2793	551	7 42	16 44
28	734.5	8 24 13.717	99	− 2	306 51 41.4	60 57.2	0.00	9.993 3344	575	7 41	16 45
29	735.5	8 28 10.274	101	− 9	307 52 38.6	60 56.4	−0.14	9.993 3919	597	7 40	16 47
30	736.5	8 32 6.831	+103	−13	308 53 35.0	60 55.9	−0.26	9.993 4516	618	7 38	16 49
31	737.5	8 36 3.388	104	−13	309 54 30.9	60 55.1	−0.35	9.993 5134	637	7 37	16 50
Febr. 1	738.5	8 39 59.945	106	−10	310 55 26.0	60 54.4	−0.42	9.993 5771	654	7 36	16 52
2	739.5	8 43 56.502	107	− 5	311 56 20.4	60 53.6	−0.47	9.993 6425	670	7 34	16 54
3	740.5	8 47 53.059	109	+ 2	312 57 14.0	60 52.6	−0.47	9.993 7095	685	7 33	16 56
4	741.5	8 51 49.615	110	+ 9	313 58 6.6	60 51.7	−0.45	9.993 7780	699	7 32	16 57
5	742.5	8 55 46.172	+111	+15	314 58 58.3	60 50.6	−0.40	9.993 8479	711	7 30	16 59
6	743.5	8 59 42.728	112	+17	315 59 48.9	60 49.5	−0.33	9.993 9190	724	7 28	17 1
7	744.5	9 3 39.284	113	+17	317 0 38.4	60 48.2	−0.23	9.993 9914	737	7 27	17 2
8	745.5	9 7 35.840	114	+13	318 1 26.6	60 46.9	−0.12	9.994 0651	749	7 25	17 4
9	746.5	9 11 32.397	114	+ 8	319 2 13.5	60 45.4	0.00	9.994 1400	762	7 24	17 6
10	747.5	9 15 28.953	+115	+ 2	320 2 58.9		+0.13	9.994 2162		7 22	17 8

Tag	Wochentag	0h Welt-Zeit							
		Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1932		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Febr. 10	Mi	+14 20.56	1.54	21 29 49.51	3 58.10	−14 48 24.0	19 17.6	67.37	16 14.39
11	Do	14 22.10	0.75	21 33 47.61	3 57.30	14 29 6.4	19 32.0	67.26	16 14.22
12	Fr	14 22.85	0.04	21 37 44.91	3 56.51	14 9 34.4	19 45.9	67.15	16 14.04
13	Sa	14 22.81	0.82	21 41 41.42	3 55.74	13 49 48.5	19 59.6	67.04	16 13.86
14	St	14 21.99	1.59	21 45 37.16	3 54.96	13 29 48.9	20 12.7	66.93	16 13.68
15	Mo	14 20.40	2.35	21 49 32.12	3 54.21	13 9 36.2	20 25.3	66.83	16 13.49
16	Di	+14 18.05	3.10	21 53 26.33	3 53.46	−12 49 10.9	20 37.7	66.72	16 13.30
17	Mi	14 14.95	3.83	21 57 19.79	3 52.72	12 28 33.2	20 49.5	66.62	16 13.10
18	Do	14 11.12	4.55	22 1 12.51	3 52.01	12 7 43.7	21 1.0	66.52	16 12.90
19	Fr	14 6.57	5.26	22 5 4.52	3 51.30	11 46 42.7	21 12.1	66.42	16 12.70
20	Sa	14 1.31	5.94	22 8 55.82	3 50.61	11 25 30.6	21 22.7	66.32	16 12.50
21	St	13 55.37	6.61	22 12 46.43	3 49.94	11 4 7.9	21 33.0	66.22	16 12.29
22	Mo	+13 48.76	7.27	22 16 36.37	3 49.30	−10 42 34.9	21 42.9	66.12	16 12.07
23	Di	13 41.49	7.89	22 20 25.67	3 48.66	10 20 52.0	21 52.4	66.03	16 11.85
24	Mi	13 33.60	8.50	22 24 14.33	3 48.05	9 58 59.6	22 1.6	65.94	16 11.62
25	Do	13 25.10	9.09	22 28 2.38	3 47.47	9 36 58.0	22 10.4	65.85	16 11.40
26	Fr	13 16.01	9.66	22 31 49.85	3 46.89	9 14 47.6	22 18.8	65.77	16 11.16
27	Sa	13 6.35	10.21	22 35 36.74	3 46.34	8 52 28.8	22 26.8	65.68	16 10.92
28	St	+12 56.14	10.75	22 39 23.08	3 45.81	− 8 30 2.0	22 34.5	65.60	16 10.68
29	Mo	12 45.39	11.26	22 43 8.89	3 45.29	8 7 27.5	22 41.7	65.52	16 10.44
März 1	Di	12 34.13	11.76	22 46 54.18	3 44.80	7 44 45.8	22 48.5	65.44	16 10.20
2	Mi	12 22.37	12.25	22 50 38.98	3 44.31	7 21 57.3	22 55.0	65.37	16 9.95
3	Do	12 10.12	12.71	22 54 23.29	3 43.84	6 59 2.3	23 1.0	65.30	16 9.70
4	Fr	11 57.41	13.16	22 58 7.13	3 43.39	6 36 1.3	23 6.6	65.23	16 9.45
5	Sa	+11 44.25	13.60	23 1 50.52	3 42.96	− 6 12 54.7	23 11.8	65.16	16 9.19
6	St	11 30.65	14.01	23 5 33.48	3 42.53	5 49 42.9	23 16.6	65.09	16 8.94
7	Mo	11 16.64	14.42	23 9 16.01	3 42.14	5 26 26.3	23 20.9	65.03	16 8.69
8	Di	11 2.22	14.81	23 12 58.15	3 41.74	5 3 5.4	23 24.9	64.98	16 8.43
9	Mi	10 47.41	15.18	23 16 39.89	3 41.38	4 39 40.5	23 28.5	64.92	16 8.18
10	Do	10 32.23	15.52	23 20 21.27	3 41.03	4 16 12.0	23 31.6	64.87	16 7.92
11	Fr	+10 16.71	15.86	23 24 2.30	3 40.69	− 3 52 40.4	23 34.4	64.82	16 7.66
12	Sa	10 0.85	16.18	23 27 42.99	3 40.38	3 29 6.0	23 36.7	64.77	16 7.41
13	St	9 44.67	16.48	23 31 23.37	3 40.07	3 5 29.3	23 38.7	64.73	16 7.15
14	Mo	9 28.19	16.75	23 35 3.44	3 39.80	2 41 50.6	23 40.2	64.69	16 6.89
15	Di	9 11.44	17.02	23 38 43.24	3 39.54	2 18 10.4	23 41.4	64.65	16 6.63
16	Mi	8 54.42	17.25	23 42 22.78	3 39.30	1 54 29.0	23 42.3	64.62	16 6.37
17	Do	+ 8 37.17	17.47	23 46 2.08	3 39.09	− 1 30 46.7	23 42.7	64.59	16 6.10
18	Fr	8 19.70	17.67	23 49 41.17	3 38.88	1 7 4.0	23 42.8	64.56	16 5.84
19	Sa	8 2.03	17.84	23 53 20.05	3 38.71	0 43 21.2	23 42.5	64.53	16 5.57
20	St	7 44.19	18.00	23 56 58.76	3 38.56	− 0 19 38.7	23 42.0	64.51	16 5.30
21	Mo	7 26.19	18.12	0 0 37.32	3 38.43	+ 0 4 3.3	23 41.0	64.49	16 5.03
22	Di	+ 7 8.07		0 4 15.75		+ 0 27 44.3		64.48	16 4.76

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1932.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0h Länge}	Untergang in {+50° Breite, 0h Länge}
1932	2426	h m s	in 0.s001		° ′ ″	′ ″	″			h m	h m
Febr. 10	747.5	9 15 28.953	+115	+ 2	320 2 58.9	60 44.0	+0.13	9.994 2162	775	7 22	17 8
11	748.5	9 19 25.508	116	− 5	321 3 42.9	60 42.4	+0.26	9.994 2937	789	7 20	17 9
12	749.5	9 23 22.064	116	−10	322 4 25.3	60 40.9	+0.39	9.994 3726	803	7 18	17 11
13	750.5	9 27 18.620	116	−14	323 5 6.2	60 39.1	+0.50	9.994 4529	818	7 17	17 13
14	751.5	9 31 15.176	117	−16	324 5 45.3	60 37.5	+0.60	9.994 5347	834	7 15	17 14
15	752.5	9 35 11.731	117	−15	325 6 22.8	60 35.8	+0.67	9.994 6181	850	7 13	17 16
16	753.5	9 39 8.287	+117	−12	326 6 58.6	60 34.0	+0.72	9.994 7031	867	7 11	17 18
17	754.5	9 43 4.842	117	− 7	327 7 32.6	60 32.2	+0.73	9.994 7898	885	7 10	17 20
18	755.5	9 47 1.397	117	− 1	328 8 4.8	60 30.5	+0.72	9.994 8783	904	7 8	17 21
19	756.5	9 50 57.952	117	+ 5	329 8 35.3	60 28.7	+0.69	9.994 9687	923	7 6	17 23
20	757.5	9 54 54.507	116	+10	330 9 4.0	60 27.0	+0.62	9.995 0610	944	7 4	17 25
21	758.5	9 58 51.062	116	+12	331 9 31.0	60 25.3	+0.52	9.995 1554	965	7 2	17 26
22	759.5	10 2 47.617	+115	+10	332 9 56.3	60 23.7	+0.40	9.995 2519	985	7 0	17 28
23	760.5	10 6 44.172	115	+ 6	333 10 20.0	60 22.1	+0.27	9.995 3504	1006	6 58	17 30
24	761.5	10 10 40.727	114	0	334 10 42.1	60 20.6	+0.12	9.995 4510	1026	6 56	17 32
25	762.5	10 14 37.281	114	− 6	335 11 2.7	60 19.0	−0.02	9.995 5536	1043	6 54	17 33
26	763.5	10 18 33.836	113	−11	336 11 21.7	60 17.7	−0.14	9.995 6579	1060	6 52	17 35
27	764.5	10 22 30.391	112	−13	337 11 39.4	60 16.2	−0.25	9.995 7639	1075	6 50	17 37
28	765.5	10 26 26.945	+111	−11	338 11 55.6	60 14.7	−0.33	9.995 8714	1089	6 48	17 38
29	766.5	10 30 23.499	110	− 6	339 12 10.3	60 13.3	−0.38	9.995 9803	1099	6 46	17 40
März 1	767.5	10 34 20.054	109	+ 1	340 12 23.6	60 11.8	−0.40	9.996 0902	1109	6 44	17 42
2	768.5	10 38 16.608	108	+ 8	341 12 35.4	60 10.2	−0.39	9.996 2011	1118	6 42	17 43
3	769.5	10 42 13.162	107	+14	342 12 45.6	60 8.7	−0.34	9.996 3129	1124	6 40	17 45
4	770.5	10 46 9.716	105	+17	343 12 54.3	60 7.0	−0.27	9.996 4253	1130	6 38	17 47
5	771.5	10 50 6.270	+104	+18	344 13 1.3	60 5.2	−0.18	9.996 5383	1134	6 36	17 48
6	772.5	10 54 2.824	103	+15	345 13 6.5	60 3.4	−0.07	9.996 6517	1139	6 34	17 50
7	773.5	10 57 59.378	101	+10	346 13 9.9	60 1.6	+0.05	9.996 7656	1142	6 32	17 51
8	774.5	11 1 55.932	100	+ 4	347 13 11.5	59 59.6	+0.19	9.996 8798	1146	6 30	17 53
9	775.5	11 5 52.486	99	− 2	348 13 11.1	59 57.6	+0.33	9.996 9944	1149	6 28	17 55
10	776.5	11 9 49.040	97	− 9	349 13 8.7	59 55.6	+0.45	9.997 1093	1153	6 25	17 56
11	777.5	11 13 45.594	+ 96	−13	350 13 4.3	59 53.4	+0.56	9.997 2246	1156	6 23	17 58
12	778.5	11 17 42.148	94	−16	351 12 57.7	59 51.3	+0.65	9.997 3402	1160	6 21	18 0
13	779.5	11 21 38.702	92	−16	352 12 49.0	59 49.2	+0.73	9.997 4562	1165	6 19	18 1
14	780.5	11 25 35.255	91	−13	353 12 38.2	59 46.8	+0.79	9.997 5727	1170	6 17	18 3
15	781.5	11 29 31.809	89	− 9	354 12 25.0	59 44.7	+0.82	9.997 6897	1175	6 15	18 4
16	782.5	11 33 28.363	87	− 3	355 12 9.7	59 42.3	+0.81	9.997 8072	1181	6 12	18 6
17	783.5	11 37 24.916	+ 86	+ 3	356 11 52.0	59 40.1	+0.78	9.997 9253	1189	6 10	18 8
18	784.5	11 41 21.470	84	+ 8	357 11 32.1	59 37.8	+0.71	9.998 0442	1197	6 8	18 9
19	785.5	11 45 18.024	82	+10	358 11 9.9	59 35.5	+0.62	9.998 1639	1207	6 6	18 11
20	786.5	11 49 14.577	81	+10	359 10 45.4	59 33.4	+0.51	9.998 2846	1216	6 4	18 12
21	787.5	11 53 11.131	79	+ 7	0 10 18.8	59 31.1	+0.37	9.998 4062	1227	6 2	18 14
22	788.5	11 57 7.685	+ 77	+ 1	1 9 49.9		+0.23	9.998 5289		5 59	18 16

Sonne 1932

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1932 März 22	Di	+7 8.07	18.22	0 4 15.75	3 38.33	+0 27 44.3	23 39.8	64.48	16 4.76
23	Mi	6 49.85	18.31	0 7 54.08	3 38.25	0 51 24.1	23 38.2	64.47	16 4.49
24	Do	6 31.54	18.35	0 11 32.33	3 38.20	1 15 2.3	23 36.3	64.46	16 4.21
25	Fr	6 13.19	18.38	0 15 10.53	3 38.18	1 38 38.6	23 34.1	64.45	16 3.93
26	Sa	5 54.81	18.39	0 18 48.71	3 38.16	2 2 12.7	23 31.6	64.44	16 3.65
27	St	5 36.42	18.37	0 22 26.87	3 38.19	2 25 44.3	23 28.8	64.44	16 3.37
28	Mo	+5 18.05	18.33	0 26 5.06	3 38.22	+2 49 13.1	23 25.5	64.44	16 3.09
29	Di	4 59.72	18.27	0 29 43.28	3 38.28	3 12 38.6	23 21.9	64.44	16 2.80
30	Mi	4 41.45	18.19	0 33 21.56	3 38.36	3 36 0.5	23 18.1	64.45	16 2.52
31	Do	4 23.26	18.10	0 36 59.92	3 38.46	3 59 18.6	23 13.7	64.46	16 2.23
April 1	Fr	4 5.16	17.99	0 40 38.38	3 38.56	4 22 32.3	23 9.1	64.48	16 1.95
2	Sa	3 47.17	17.86	0 44 16.94	3 38.70	4 45 41.4	23 4.0	64.50	16 1.67
3	St	+3 29.31	17.71	0 47 55.64	3 38.85	+5 8 45.4	22 58.7	64.52	16 1.39
4	Mo	3 11.60	17.54	0 51 34.49	3 39.00	5 31 44.1	22 52.9	64.54	16 1.11
5	Di	2 54.06	17.37	0 55 13.49	3 39.19	5 54 37.0	22 46.7	64.56	16 0.83
6	Mi	2 36.69	17.18	0 58 52.68	3 39.38	6 17 23.7	22 40.3	64.59	16 0.55
7	Do	2 19.51	16.96	1 2 32.06	3 39.59	6 40 4.0	22 33.4	64.62	16 0.28
8	Fr	2 2.55	16.74	1 6 11.65	3 39.81	7 2 37.4	22 26.1	64.65	16 0.00
9	Sa	+1 45.81	16.50	1 9 51.46	3 40.05	+7 25 3.5	22 18.6	64.69	15 59.73
10	St	1 29.31	16.25	1 13 31.51	3 40.31	7 47 22.1	22 10.6	64.73	15 59.46
11	Mo	1 13.06	15.98	1 17 11.82	3 40.57	8 9 32.7	22 2.3	64.77	15 59.19
12	Di	0 57.08	15.70	1 20 52.39	3 40.86	8 31 35.0	21 53.6	64.81	15 58.93
13	Mi	0 41.38	15.40	1 24 33.25	3 41.16	8 53 28.6	21 44.7	64.85	15 58.66
14	Do	0 25.98	15.08	1 28 14.41	3 41.47	9 15 13.3	21 35.3	64.90	15 58.40
15	Fr	+0 10.90	14.76	1 31 55.88	3 41.79	+9 36 48.6	21 25.6	64.95	15 58.14
16	Sa	−0 3.86	14.42	1 35 37.67	3 42.14	9 58 14.2	21 15.6	65.00	15 57.87
17	St	0 18.28	14.05	1 39 19.81	3 42.50	10 19 29.8	21 5.3	65.05	15 57.61
18	Mo	0 32.33	13.68	1 43 2.31	3 42.88	10 40 35.1	20 54.6	65.11	15 57.35
19	Di	0 46.01	13.28	1 46 45.19	3 43.27	11 1 29.7	20 43.8	65.17	15 57.09
20	Mi	0 59.29	12.87	1 50 28.46	3 43.68	11 22 13.5	20 32.5	65.23	15 56.83
21	Do	−1 12.16	12.45	1 54 12.14	3 44.12	+11 42 46.0	20 21.1	65.29	15 56.57
22	Fr	1 24.61	11.99	1 57 56.26	3 44.56	12 3 7.1	20 9.2	65.36	15 56.31
23	Sa	1 36.60	11.52	2 1 40.82	3 45.03	12 23 16.3	19 57.1	65.42	15 56.05
24	St	1 48.12	11.05	2 5 25.85	3 45.51	12 43 13.4	19 44.7	65.49	15 55.80
25	Mo	1 59.17	10.55	2 9 11.36	3 46.00	13 2 58.1	19 31.9	65.56	15 55.54
26	Di	2 9.72	10.04	2 12 57.36	3 46.51	13 22 30.0	19 18.9	65.63	15 55.28
27	Mi	−2 19.76	9.53	2 16 43.87	3 47.03	+13 41 48.9	19 5.5	65.70	15 55.02
28	Do	2 29.29	9.00	2 20 30.90	3 47.56	14 0 54.4	18 51.8	65.77	15 54.77
29	Fr	2 38.29	8.46	2 24 18.46	3 48.09	14 19 46.2	18 37.8	65.85	15 54.52
30	Sa	2 46.75	7.93	2 28 6.55	3 48.64	14 38 24.0	18 23.3	65.92	15 54.27
Mai 1	St	2 54.68	7.37	2 31 55.19	3 49.18	14 56 47.3	18 8.7	66.00	15 54.03
2	Mo	−3 2.05		2 35 44.37		+15 14 56.0		66.07	15 53.78

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1932.0 Länge		Mittleres Äquinoktium 1932.0 Breite	log R		Aufgang in {+50° Breite, 0h Länge}	Untergang in {+50° Breite, 0h Länge}
1932	2426	h m s	in 0.001 s		° ′ ″	′ ″	″			h m	h m
März 22	788.5	11 57 7.685	+77	+ 1	1 9 49.9	59 29.2	+0.23	9.998 5289	1237	5 59	18 16
23	789.5	12 1 4.238	76	− 5	2 9 19.1	59 27.1	+0.10	9.998 6526	1248	5 57	18 17
24	790.5	12 5 0.792	74	−10	3 8 46.2	59 25.3	−0.04	9.998 7774	1257	5 55	18 19
25	791.5	12 8 57.346	72	−13	4 8 11.5	59 23.3	−0.16	9.998 9031	1265	5 53	18 20
26	792.5	12 12 53.899	70	−12	5 7 34.8	59 21.6	−0.25	9.999 0296	1271	5 51	18 22
27	793.5	12 16 50.453	69	− 8	6 6 56.4	59 19.8	−0.32	9.999 1567	1276	5 48	18 23
28	794.5	12 20 47.007	+67	− 1	7 6 16.2	59 18.0	−0.36	9.999 2843	1280	5 46	18 25
29	795.5	12 24 43.561	66	+ 6	8 5 34.2	59 16.4	−0.37	9.999 4123	1280	5 44	18 27
30	796.5	12 28 40.114	64	+13	9 4 50.6	59 14.5	−0.34	9.999 5403	1280	5 42	18 28
31	797.5	12 32 36.668	62	+18	10 4 5.1	59 12.7	−0.27	9.999 6683	1278	5 40	18 30
April 1	798.5	12 36 33.222	61	+19	11 3 17.8	59 11.0	−0.19	9.999 7961	1275	5 38	18 31
2	799.5	12 40 29.776	59	+17	12 2 28.8	59 9.0	−0.08	9.999 9236	1271	5 36	18 33
3	800.5	12 44 26.330	+58	+13	13 1 37.8	59 7.2	+0.04	0.000 0507	1265	5 33	18 34
4	801.5	12 48 22.884	57	+ 7	14 0 45.0	59 5.3	+0.17	0.000 1772	1258	5 31	18 36
5	802.5	12 52 19.438	55	0	14 59 50.3	59 3.2	+0.29	0.000 3030	1252	5 29	18 37
6	803.5	12 56 15.992	54	− 7	15 58 53.5	59 1.2	+0.42	0.000 4282	1245	5 27	18 39
7	804.5	13 0 12.546	53	−12	16 57 54.7	58 59.1	+0.53	0.000 5527	1237	5 25	18 41
8	805.5	13 4 9.100	51	−15	17 56 53.8	58 57.0	+0.64	0.000 6764	1229	5 23	18 42
9	806.5	13 8 5.654	+50	−15	18 55 50.8	58 54.9	+0.73	0.000 7993	1222	5 20	18 44
10	807.5	13 12 2.208	49	−14	19 54 45.7	58 52.7	+0.79	0.000 9215	1215	5 18	18 45
11	808.5	13 15 58.763	48	−10	20 53 38.4	58 50.4	+0.82	0.001 0430	1207	5 16	18 47
12	809.5	13 19 55.317	47	− 4	21 52 28.8	58 48.2	+0.83	0.001 1637	1201	5 14	18 48
13	810.5	13 23 51.871	46	+ 1	22 51 17.0	58 46.0	+0.80	0.001 2838	1195	5 12	18 50
14	811.5	13 27 48.426	45	+ 6	23 50 3.0	58 43.7	+0.74	0.001 4033	1189	5 10	18 51
15	812.5	13 31 44.980	+44	+ 9	24 48 46.7	58 41.3	+0.67	0.001 5222	1186	5 8	18 53
16	813.5	13 35 41.535	44	+10	25 47 28.0	58 39.2	+0.56	0.001 6408	1183	5 6	18 55
17	814.5	13 39 38.090	43	+ 7	26 46 7.2	58 36.9	+0.43	0.001 7591	1181	5 4	18 56
18	815.5	13 43 34.645	42	+ 2	27 44 44.1	58 34.8	+0.28	0.001 8772	1179	5 2	18 58
19	816.5	13 47 31.199	42	− 4	28 43 18.9	58 32.7	+0.14	0.001 9951	1180	5 0	18 59
20	817.5	13 51 27.754	41	−10	29 41 51.6	58 30.8	+0.01	0.002 1131	1179	4 58	19 1
21	818.5	13 55 24.309	+41	−13	30 40 22.4	58 28.8	−0.11	0.002 2310	1180	4 56	19 2
22	819.5	13 59 20.864	41	−14	31 38 51.2	58 27.0	−0.22	0.002 3490	1178	4 54	19 4
23	820.5	14 3 17.419	40	−10	32 37 18.2	58 25.3	−0.29	0.002 4668	1176	4 52	19 6
24	821.5	14 7 13.975	40	− 4	33 35 43.5	58 23.7	−0.34	0.002 5844	1173	4 50	19 7
25	822.5	14 11 10.530	40	+ 4	34 34 7.2	58 22.1	−0.36	0.002 7017	1168	4 48	19 9
26	823.5	14 15 7.085	40	+12	35 32 29.3	58 20.6	−0.34	0.002 8185	1161	4 46	19 10
27	824.5	14 19 3.641	+40	+17	36 30 49.9	58 19.0	−0.29	0.002 9346	1153	4 44	19 12
28	825.5	14 23 0.196	40	+20	37 29 8.9	58 17.4	−0.22	0.003 0499	1143	4 42	19 13
29	826.5	14 26 56.752	41	+19	38 27 26.3	58 16.0	−0.12	0.003 1642	1131	4 41	19 15
30	827.5	14 30 53.308	41	+15	39 25 42.3	58 14.4	0.00	0.003 2773	1118	4 39	19 16
Mai 1	828.5	14 34 49.863	41	+ 9	40 23 56.7	58 12.9	+0.13	0.003 3891	1105	4 37	19 18
2	829.5	14 38 46.419	+42	+ 2	41 22 9.6		+0.25	0.003 4996		4 35	19 19

Tag		Wochentag	0h Welt-Zeit Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1932			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Mai	2	Mo	−3 2.05	6.82	2 35 44.37	3 49.73	+15 14 56.0	17 53.5	66.07	15 53.78
	3	Di	3 8.87	6.27	2 39 34.10	3 50.29	15 32 49.5	17 38.2	66.15	15 53.54
	4	Mi	3 15.14	5.70	2 43 24.39	3 50.85	15 50 27.7	17 22.4	66.23	15 53.31
	5	Do	3 20.84	5.14	2 47 15.24	3 51.42	16 7 50.1	17 6.4	66.31	15 53.08
	6	Fr	3 25.98	4.58	2 51 6.66	3 51.97	16 24 56.5	16 50.0	66.40	15 52.85
	7	Sa	3 30.56	4.02	2 54 58.63	3 52.54	16 41 46.5	16 33.3	66.48	15 52.62
	8	St	−3 34.58	3.45	2 58 51.17	3 53.11	+16 58 19.8	16 16.3	66.56	15 52.40
	9	Mo	3 38.03	2.89	3 2 44.28	3 53.66	17 14 36.1	15 59.0	66.64	15 52.18
	10	Di	3 40.92	2.33	3 6 37.94	3 54.23	17 30 35.1	15 41.3	66.72	15 51.97
	11	Mi	3 43.25	1.77	3 10 32.17	3 54.79	17 46 16.4	15 23.3	66.80	15 51.76
	12	Do	3 45.02	1.22	3 14 26.96	3 55.34	18 1 39.7	15 5.1	66.89	15 51.56
	13	Fr	3 46.24	0.66	3 18 22.30	3 55.90	18 16 44.8	14 46.6	66.97	15 51.35
	14	Sa	−3 46.90	0.10	3 22 18.20	3 56.45	+18 31 31.4	14 27.8	67.05	15 51.15
	15	St	3 47.00	0.44	3 26 14.65	3 56.99	18 45 59.2	14 8.8	67.13	15 50.96
	16	Mo	3 46.56	0.98	3 30 11.64	3 57.55	19 0 8.0	13 49.4	67.21	15 50.76
	17	Di	3 45.58	1.54	3 34 9.19	3 58.09	19 13 57.4	13 29.9	67.29	15 50.57
	18	Mi	3 44.04	2.08	3 38 7.28	3 58.64	19 27 27.3	13 10.0	67.37	15 50.38
	19	Do	3 41.96	2.62	3 42 5.92	3 59.18	19 40 37.3	12 50.0	67.45	15 50.20
	20	Fr	−3 39.34	3.17	3 46 5.10	3 59.72	+19 53 27.3	12 29.8	67.53	15 50.01
	21	Sa	3 36.17	3.71	3 50 4.82	4 0.27	20 5 57.1	12 9.2	67.61	15 49.83
	22	St	3 32.46	4.25	3 54 5.09	4 0.81	20 18 6.3	11 48.4	67.68	15 49.65
	23	Mo	3 28.21	4.78	3 58 5.90	4 1.34	20 29 54.7	11 27.5	67.76	15 49.47
	24	Di	3 23.43	5.31	4 2 7.24	4 1.87	20 41 22.2	11 6.3	67.83	15 49.29
	25	Mi	3 18.12	5.83	4 6 9.11	4 2.39	20 52 28.5	10 44.8	67.90	15 49.12
	26	Do	−3 12.29	6.34	4 10 11.50	4 2.90	+21 3 13.3	10 23.1	67.97	15 48.95
	27	Fr	3 5.95	6.84	4 14 14.40	4 3.39	21 13 36.4	10 1.3	68.04	15 48.78
	28	Sa	2 59.11	7.33	4 18 17.79	4 3.89	21 23 37.7	9 39.0	68.11	15 48.62
	29	St	2 51.78	7.79	4 22 21.68	4 4.35	21 33 16.7	9 16.8	68.18	15 48.46
	30	Mo	2 43.99	8.25	4 26 26.03	4 4.81	21 42 33.5	8 54.1	68.24	15 48.30
	31	Di	2 35.74	8.69	4 30 30.84	4 5.24	21 51 27.6	8 31.4	68.30	15 48.15
Juni	1	Mi	−2 27.05	9.10	4 34 36.08	4 5.66	+21 59 59.0	8 8.4	68.36	15 48.00
	2	Do	2 17.95	9.51	4 38 41.74	4 6.07	22 8 7.4	7 45.3	68.41	15 47.86
	3	Fr	2 8.44	9.88	4 42 47.81	4 6.44	22 15 52.7	7 21.9	68.46	15 47.73
	4	Sa	1 58.56	10.25	4 46 54.25	4 6.80	22 23 14.6	6 58.5	68.51	15 47.59
	5	St	1 48.31	10.58	4 51 1.05	4 7.14	22 30 13.1	6 34.7	68.56	15 47.47
	6	Mo	1 37.73	10.89	4 55 8.19	4 7.45	22 36 47.8	6 11.0	68.61	15 47.35
	7	Di	−1 26.84	11.18	4 59 15.64	4 7.74	+22 42 58.8	5 47.0	68.66	15 47.23
	8	Mi	1 15.66	11.45	5 3 23.38	4 8.01	22 48 45.8	5 22.9	68.70	15 47.12
	9	Do	1 4.21	11.69	5 7 31.39	4 8.25	22 54 8.7	4 58.7	68.73	15 47.01
	10	Fr	0 52.52	11.92	5 11 39.64	4 8.47	22 59 7.4	4 34.5	68.76	15 46.91
	11	Sa	0 40.60	12.10	5 15 48.11	4 8.66	23 3 41.9	4 10.1	68.79	15 46.82
	12	St	−0 28.50		5 19 56.77		+23 7 52.0		68.82	15 46.73

Tag		0h Welt-Zeit Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1932.0 Länge		Breite	log R		Aufgang in +50° Breite 0h Länge	Untergang
1932		2426	h m s	in 0.001 s		° ′ ″	′ ″	″			h m	h m
Mai	2	829.5	14 38 46.419	+ 42	+ 2	41 22 9.6	58 11.3	+0.25	0.003 4996	1090	4 35	19 19
	3	830.5	14 42 42.975	43	− 4	42 20 20.9	58 9.7	+0.37	0.003 6086	1075	4 34	19 21
	4	831.5	14 46 39.531	43	−10	43 18 30.6	58 8.1	+0.49	0.003 7161	1059	4 32	19 22
	5	832.5	14 50 36.087	44	−13	44 16 38.7	58 6.5	+0.58	0.003 8220	1042	4 30	19 24
	6	833.5	14 54 32.644	45	−15	45 14 45.2	58 4.8	+0.66	0.003 9262	1024	4 28	19 25
	7	834.5	14 58 29.200	46	−13	46 12 50.0	58 3.1	+0.72	0.004 0286	1007	4 27	19 27
	8	835.5	15 2 25.756	+ 47	−10	47 10 53.1	58 1.3	+0.76	0.004 1293	990	4 25	19 28
	9	836.5	15 6 22.313	48	− 5	48 8 54.4	57 59.7	+0.77	0.004 2283	972	4 23	19 30
	10	837.5	15 10 18.869	49	0	49 6 54.1	57 57.8	+0.75	0.004 3255	956	4 22	19 31
	11	838.5	15 14 15.426	51	+ 5	50 4 51.9	57 56.0	+0.70	0.004 4211	940	4 20	19 33
	12	839.5	15 18 11.983	52	+ 9	51 2 47.9	57 54.3	+0.62	0.004 5151	924	4 19	19 34
	13	840.5	15 22 8.540	53	+10	52 0 42.2	57 52.4	+0.51	0.004 6075	909	4 17	19 36
	14	841.5	15 26 5.096	+ 55	+ 8	52 58 34.6	57 50.6	+0.39	0.004 6984	896	4 16	19 37
	15	842.5	15 30 1.653	56	+ 3	53 56 25.2	57 48.9	+0.27	0.004 7880	884	4 14	19 39
	16	843.5	15 33 58.211	58	− 3	54 54 14.1	57 47.1	+0.13	0.004 8764	873	4 13	19 40
	17	844.5	15 37 54.768	60	−10	55 52 1.2	57 45.5	−0.02	0.004 9637	863	4 12	19 41
	18	845.5	15 41 51.325	62	−14	56 49 46.7	57 44.0	−0.14	0.005 0500	854	4 10	19 43
	19	846.5	15 45 47.882	64	−15	57 47 30.7	57 42.4	−0.25	0.005 1354	846	4 9	19 44
	20	847.5	15 49 44.439	+ 66	−13	58 45 13.1	57 41.2	−0.32	0.005 2200	837	4 8	19 45
	21	848.5	15 53 40.997	68	− 7	59 42 54.3	57 39.8	−0.37	0.005 3037	828	4 7	19 47
	22	849.5	15 57 37.554	70	0	60 40 34.1	57 38.7	−0.40	0.005 3865	818	4 6	19 48
	23	850.5	16 1 34.112	72	+ 8	61 38 12.8	57 37.6	−0.39	0.005 4683	808	4 4	19 49
	24	851.5	16 5 30.670	74	+15	62 35 50.4	57 36.6	−0.34	0.005 5491	795	4 3	19 51
	25	852.5	16 9 27.227	77	+19	63 33 27.0	57 35.7	−0.28	0.005 6286	781	4 2	19 52
	26	853.5	16 13 23.785	+ 79	+20	64 31 2.7	57 34.8	−0.19	0.005 7067	766	4 1	19 53
	27	854.5	16 17 20.343	82	+17	65 28 37.5	57 33.8	−0.08	0.005 7833	749	4 0	19 54
	28	855.5	16 21 16.901	84	+12	66 26 11.3	57 33.0	+0.04	0.005 8582	731	3 59	19 55
	29	856.5	16 25 13.459	87	+ 5	67 23 44.3	57 32.2	+0.16	0.005 9313	712	3 58	19 57
	30	857.5	16 29 10.017	89	− 2	68 21 16.5	57 31.3	+0.27	0.006 0025	692	3 58	19 58
	31	858.5	16 33 6.575	92	− 7	69 18 47.8	57 30.4	+0.38	0.006 0717	671	3 57	19 59
Juni	1	859.5	16 37 3.133	+ 95	−12	70 16 18.2	57 29.5	+0.48	0.006 1388	649	3 56	20 0
	2	860.5	16 40 59.691	98	−14	71 13 47.7	57 28.7	+0.57	0.006 2037	627	3 55	20 1
	3	861.5	16 44 56.249	101	−13	72 11 16.4	57 27.8	+0.62	0.006 2664	603	3 55	20 2
	4	862.5	16 48 52.808	103	−11	73 8 44.2	57 26.8	+0.66	0.006 3267	580	3 54	20 3
	5	863.5	16 52 49.366	106	− 7	74 6 11.0	57 26.0	+0.67	0.006 3847	555	3 53	20 4
	6	864.5	16 56 45.924	109	− 1	75 3 37.0	57 24.9	+0.65	0.006 4402	532	3 53	20 4
	7	865.5	17 0 42.483	+113	+ 5	76 1 1.9	57 24.0	+0.60	0.006 4934	508	3 52	20 5
	8	866.5	17 4 39.041	116	+ 9	76 58 25.9	57 23.0	+0.53	0.006 5442	485	3 52	20 6
	9	867.5	17 8 35.600	119	+11	77 55 48.9	57 21.9	+0.43	0.006 5927	463	3 51	20 7
	10	868.5	17 12 32.158	122	+10	78 53 10.8	57 21.0	+0.31	0.006 6390	441	3 51	20 8
	11	869.5	17 16 28.717	125	+ 6	79 50 31.8	57 19.9	+0.19	0.006 6831	421	3 51	20 8
	12	870.5	17 20 25.275	+128	− 1	80 47 51.7		+0.05	0.006 7252		3 50	20 9

Sonne 1932

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung, Mittlere Zeit *minus* Wahre Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1932									
Juni 12	St	−0 28.50	12.28	5 19 56.77	4 8.84	+23 7 52.0	3 45.6	68.82	15 46.73
13	Mo	0 16.22	12.43	5 24 5.61	4 8.99	23 11 37.6	3 21.1	68.85	15 46.64
14	Di	−0 3.79	12.56	5 28 14.60	4 9.12	23 14 58.7	2 56.5	68.88	15 46.55
15	Mi	+0 8.77	12.66	5 32 23.72	4 9.22	23 17 55.2	2 32.0	68.89	15 46.47
16	Do	0 21.43	12.76	5 36 32.94	4 9.32	23 20 27.2	2 7.2	68.91	15 46.40
17	Fr	0 34.19	12.83	5 40 42.26	4 9.39	23 22 34.4	1 42.6	68.92	15 46.32
18	Sa	+0 47.02	12.89	5 44 51.65	4 9.44	+23 24 17.0	1 17.8	68.93	15 46.25
19	St	0 59.91	12.92	5 49 1.09	4 9.48	23 25 34.8	0 53.1	68.94	15 46.19
20	Mo	1 12.83	12.94	5 53 10.57	4 9.50	23 26 27.9	0 28.4	68.94	15 46.12
21	Di	1 25.77	12.93	5 57 20.07	4 9.50	23 26 56.3	0 3.5	68.94	15 46.06
22	Mi	1 38.70	12.92	6 1 29.57	4 9.47	23 26 59.8	0 21.1	68.94	15 46.00
23	Do	1 51.62	12.87	6 5 39.04	4 9.43	23 26 38.7	0 46.0	68.93	15 45.94
24	Fr	+2 4.49	12.81	6 9 48.47	4 9.37	+23 25 52.7	1 10.7	68.92	15 45.89
25	Sa	2 17.30	12.72	6 13 57.84	4 9.28	23 24 42.0	1 35.4	68.91	15 45.85
26	St	2 30.02	12.61	6 18 7.12	4 9.16	23 23 6.6	2 0.1	68.89	15 45.80
27	Mo	2 42.63	12.47	6 22 16.28	4 9.03	23 21 6.5	2 24.8	68.87	15 45.76
28	Di	2 55.10	12.31	6 26 25.31	4 8.87	23 18 41.7	2 49.3	68.85	15 45.73
29	Mi	3 7.41	12.12	6 30 34.18	4 8.68	23 15 52.4	3 13.9	68.82	15 45.70
30	Do	+3 19.53	11.92	6 34 42.86	4 8.48	+23 12 38.5	3 38.3	68.79	15 45.68
Juli 1	Fr	3 31.45	11.68	6 38 51.34	4 8.24	23 9 0.2	4 2.7	68.76	15 45.66
2	Sa	3 43.13	11.43	6 42 59.58	4 7.98	23 4 57.5	4 26.9	68.72	15 45.65
3	St	3 54.56	11.14	6 47 7.56	4 7.70	23 0 30.6	4 51.0	68.68	15 45.64
4	Mo	4 5.70	10.84	6 51 15.26	4 7.40	22 55 39.6	5 15.1	68.64	15 45.64
5	Di	4 16.54	10.50	6 55 22.66	4 7.06	22 50 24.5	5 38.9	68.60	15 45.64
6	Mi	+4 27.04	10.15	6 59 29.72	4 6.71	+22 44 45.6	6 2.7	68.56	15 45.65
7	Do	4 37.19	9.77	7 3 36.43	4 6.32	22 38 42.9	6 26.2	68.50	15 45.66
8	Fr	4 46.96	9.36	7 7 42.75	4 5.93	22 32 16.7	6 49.6	68.45	15 45.68
9	Sa	4 56.32	8.95	7 11 48.68	4 5.50	22 25 27.1	7 12.8	68.39	15 45.71
10	St	5 5.27	8.50	7 15 54.18	4 5.07	22 18 14.3	7 35.8	68.33	15 45.74
11	Mo	5 13.77	8.05	7 19 59.25	4 4.60	22 10 38.5	7 58.7	68.27	15 45.78
12	Di	+5 21.82	7.58	7 24 3.85	4 4.13	+22 2 39.8	8 21.3	68.21	15 45.82
13	Mi	5 29.40	7.09	7 28 7.98	4 3.65	21 54 18.5	8 43.7	68.15	15 45.86
14	Do	5 36.49	6.59	7 32 11.63	4 3.15	21 45 34.8	9 6.0	68.09	15 45.91
15	Fr	5 43.08	6.08	7 36 14.78	4 2.64	21 36 28.8	9 27.9	68.02	15 45.96
16	Sa	5 49.16	5.57	7 40 17.42	4 2.13	21 27 0.9	9 49.8	67.95	15 46.02
17	St	5 54.73	5.04	7 44 19.55	4 1.60	21 17 11.1	10 11.5	67.87	15 46.08
18	Mo	+5 59.77	4.52	7 48 21.15	4 1.07	+21 6 59.6	10 32.8	67.80	15 46.14
19	Di	6 4.29	3.97	7 52 22.22	4 0.54	20 56 26.8	10 54.1	67.73	15 46.20
20	Mi	6 8.26	3.44	7 56 22.76	3 59.99	20 45 32.7	11 15.0	67.65	15 46.27
21	Do	6 11.70	2.89	8 0 22.75	3 59.45	20 34 17.7	11 35.8	67.57	15 46.34
22	Fr	6 14.59	2.34	8 4 22.20	3 58.90	20 22 41.9	11 56.3	67.49	15 46.41
23	Sa	+6 16.93		8 8 21.10		+20 10 45.6		67.41	15 46.49

Tag	0h Welt-Zeit: Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1932.0: Länge	Diff.	Breite	log R	Diff.	Aufgang	Untergang
1932	2426	h m s	in 0.001 s		° ′ ″	′ ″	″			h m	h m
Juni 12	870.5	17 20 25.275	+128	− 1	80 47 51.7	57 18.9	+0.05	0.006 7252	401	3 50	20 9
13	871.5	17 24 21.834	131	− 7	81 45 10.6	57 17.9	−0.09	0.006 7653	384	3 50	20 9
14	872.5	17 28 18.393	135	−13	82 42 28.5	57 17.0	−0.21	0.006 8037	367	3 50	20 10
15	873.5	17 32 14.951	138	−16	83 39 45.5	57 16.1	−0.32	0.006 8404	352	3 50	20 11
16	874.5	17 36 11.510	141	−15	84 37 1.6	57 15.5	−0.41	0.006 8756	338	3 50	20 11
17	875.5	17 40 8.069	145	−10	85 34 17.1	57 14.7	−0.46	0.006 9094	325	3 50	20 11
18	876.5	17 44 4.627	+148	− 4	86 31 31.8	57 14.2	−0.49	0.006 9419	311	3 50	20 12
19	877.5	17 48 1.186	151	+ 5	87 28 46.0	57 13.8	−0.49	0.006 9730	298	3 50	20 12
20	878.5	17 51 57.745	154	+12	88 25 59.8	57 13.4	−0.46	0.007 0028	284	3 50	20 12
21	879.5	17 55 54.303	158	+17	89 23 13.2	57 13.1	−0.39	0.007 0312	269	3 50	20 13
22	880.5	17 59 50.862	161	+19	90 20 26.3	57 13.0	−0.30	0.007 0581	253	3 51	20 13
23	881.5	18 3 47.421	165	+17	91 17 39.3	57 12.9	−0.20	0.007 0834	236	3 51	20 13
24	882.5	18 7 43.979	+168	+13	92 14 52.2	57 12.8	−0.09	0.007 1070	218	3 51	20 13
25	883.5	18 11 40.538	171	+ 7	93 12 5.0	57 12.8	+0.02	0.007 1288	198	3 51	20 13
26	884.5	18 15 37.097	175	0	94 9 17.8	57 12.8	+0.14	0.007 1486	178	3 52	20 13
27	885.5	18 19 33.656	178	− 6	95 6 30.6	57 12.9	+0.26	0.007 1664	156	3 52	20 13
28	886.5	18 23 30.214	181	−10	96 3 43.5	57 12.9	+0.37	0.007 1820	133	3 53	20 13
29	887.5	18 27 26.773	184	−13	97 0 56.4	57 12.9	+0.45	0.007 1953	110	3 53	20 13
30	888.5	18 31 23.331	+188	−14	97 58 9.3	57 13.0	+0.50	0.007 2063	86	3 54	20 13
Juli 1	889.5	18 35 19.890	191	−12	98 55 22.3	57 13.0	+0.53	0.007 2149	61	3 54	20 13
2	890.5	18 39 16.448	194	− 8	99 52 35.3	57 13.1	+0.54	0.007 2210	36	3 55	20 12
3	891.5	18 43 13.007	197	− 2	100 49 48.4	57 13.1	+0.53	0.007 2246	9	3 56	20 12
4	892.5	18 47 9.565	200	+ 4	101 47 1.5	57 13.2	+0.49	0.007 2255	17	3 57	20 11
5	893.5	18 51 6.124	203	+ 9	102 44 14.7	57 13.1	+0.42	0.007 2238	43	3 57	20 11
6	894.5	18 55 2.682	+206	+11	103 41 27.8	57 13.0	+0.33	0.007 2195	69	3 58	20 10
7	895.5	18 58 59.241	209	+11	104 38 40.8	57 13.0	+0.22	0.007 2126	95	3 59	20 10
8	896.5	19 2 55.799	212	+ 8	105 35 53.8	57 12.9	+0.09	0.007 2031	119	4 0	20 9
9	897.5	19 6 52.357	215	+ 2	106 33 6.7	57 12.8	−0.05	0.007 1912	142	4 1	20 9
10	898.5	19 10 48.916	218	− 5	107 30 19.5	57 12.6	−0.19	0.007 1770	165	4 2	20 8
11	899.5	19 14 45.474	221	−11	108 27 32.1	57 12.6	−0.32	0.007 1605	185	4 3	20 7
12	900.5	19 18 42.032	+224	−15	109 24 44.7	57 12.6	−0.44	0.007 1420	203	4 4	20 7
13	901.5	19 22 38.590	227	−16	110 21 57.3	57 12.6	−0.53	0.007 1217	222	4 5	20 6
14	902.5	19 26 35.148	229	−13	111 19 9.9	57 12.6	−0.58	0.007 0995	237	4 6	20 5
15	903.5	19 30 31.706	232	− 7	112 16 22.5	57 12.8	−0.61	0.007 0758	253	4 7	20 4
16	904.5	19 34 28.264	234	+ 1	113 13 35.3	57 13.1	−0.60	0.007 0505	267	4 8	20 3
17	905.5	19 38 24.822	237	+ 9	114 10 48.4	57 13.4	−0.57	0.007 0238	280	4 9	20 2
18	906.5	19 42 21.380	+239	+15	115 8 1.8	57 13.9	−0.50	0.006 9958	295	4 10	20 1
19	907.5	19 46 17.938	242	+18	116 5 15.7	57 14.5	−0.41	0.006 9663	308	4 11	20 0
20	908.5	19 50 14.495	244	+18	117 2 30.2	57 15.0	−0.31	0.006 9355	323	4 13	19 59
21	909.5	19 54 11.053	246	+14	117 59 45.2	57 15.9	−0.19	0.006 9032	337	4 14	19 58
22	910.5	19 58 7.610	249	+ 9	118 57 1.1	57 16.6	−0.05	0.006 8695	354	4 15	19 57
23	911.5	20 2 4.168	+251	+ 2	119 54 17.7		+0.08	0.006 8341		4 16	19 56

Aufgang / Untergang in +50° Breite, 0h Länge

Sonne 1932

Tag		Wochentag	0h Welt-Zeit Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1932			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli	23	Sa	+6 16.93	1.78	8 8 21.10	3 58.34	+20 10 45.6	12 16.6	67.41	15 46.49
	24	St	6 18.71	1.22	8 12 19.44	3 57.77	19 58 29.0	12 36.7	67.33	15 46.57
	25	Mo	6 19.93	0.64	8 16 17.21	3 57.20	19 45 52.3	12 56.4	67.25	15 46.65
	26	Di	6 20.57	0.07	8 20 14.41	3 56.63	19 32 55.9	13 16.0	67.16	15 46.74
	27	Mi	6 20.64	0.51	8 24 11.04	3 56.04	19 19 39.9	13 35.3	67.08	15 46.84
	28	Do	6 20.13	1.10	8 28 7.08	3 55.46	19 6 4.6	13 54.3	66.99	15 46.93
	29	Fr	+6 19.03	1.68	8 32 2.54	3 54.87	+18 52 10.3	14 13.1	66.90	15 47.04
	30	Sa	6 17.35	2.28	8 35 57.41	3 54.28	18 37 57.2	14 31.5	66.82	15 47.14
	31	St	6 15.07	2.88	8 39 51.69	3 53.68	18 23 25.7	14 49.6	66.73	15 47.26
Aug.	1	Mo	6 12.19	3.48	8 43 45.37	3 53.08	18 8 36.1	15 7.5	66.64	15 47.37
	2	Di	6 8.71	4.08	8 47 38.45	3 52.47	17 53 28.6	15 25.1	66.56	15 47.50
	3	Mi	6 4.63	4.69	8 51 30.92	3 51.87	17 38 3.5	15 42.3	66.47	15 47.63
	4	Do	+5 59.94	5.30	8 55 22.79	3 51.26	+17 22 21.2	15 59.2	66.38	15 47.76
	5	Fr	5 54.64	5.91	8 59 14.05	3 50.65	17 6 22.0	16 15.8	66.30	15 47.89
	6	Sa	5 48.73	6.52	9 3 4.70	3 50.03	16 50 6.2	16 32.1	66.21	15 48.04
	7	St	5 42.21	7.13	9 6 54.73	3 49.43	16 33 34.1	16 48.0	66.12	15 48.19
	8	Mo	5 35.08	7.73	9 10 44.16	3 48.82	16 16 46.1	17 3.6	66.04	15 48.34
	9	Di	5 27.35	8.34	9 14 32.98	3 48.21	15 59 42.5	17 18.9	65.95	15 48.50
	10	Mi	+5 19.01	8.94	9 18 21.19	3 47.63	+15 42 23.6	17 33.9	65.87	15 48.66
	11	Do	5 10.07	9.52	9 22 8.82	3 47.03	15 24 49.7	17 48.6	65.79	15 48.82
	12	Fr	5 0.55	10.09	9 25 55.85	3 46.46	15 7 1.1	18 3.0	65.71	15 48.99
	13	Sa	4 50.46	10.66	9 29 42.31	3 45.90	14 48 58.1	18 17.1	65.63	15 49.16
	14	St	4 39.80	11.22	9 33 28.21	3 45.34	14 30 41.0	18 30.8	65.55	15 49.33
	15	Mo	4 28.58	11.75	9 37 13.55	3 44.80	14 12 10.2	18 44.4	65.47	15 49.51
	16	Di	+4 16.83	12.28	9 40 58.35	3 44.28	+13 53 25.8	18 57.6	65.39	15 49.69
	17	Mi	4 4.55	12.79	9 44 42.63	3 43.76	13 34 28.2	19 10.5	65.31	15 49.87
	18	Do	3 51.76	13.29	9 48 26.39	3 43.27	13 15 17.7	19 23.2	65.24	15 50.05
	19	Fr	3 38.47	13.77	9 52 9.66	3 42.78	12 55 54.5	19 35.5	65.16	15 50.23
	20	Sa	3 24.70	14.24	9 55 52.44	3 42.32	12 36 19.0	19 47.6	65.09	15 50.42
	21	St	3 10.46	14.69	9 59 34.76	3 41.86	12 16 31.4	19 59.3	65.02	15 50.61
	22	Mo	+2 55.77	15.14	10 3 16.62	3 41.42	+11 56 32.1	20 10.8	64.95	15 50.80
	23	Di	2 40.63	15.56	10 6 58.04	3 40.99	11 36 21.3	20 22.0	64.89	15 50.99
	24	Mi	2 25.07	15.98	10 10 39.03	3 40.58	11 15 59.3	20 32.7	64.82	15 51.19
	25	Do	2 9.09	16.37	10 14 19.61	3 40.18	10 55 26.6	20 43.3	64.76	15 51.39
	26	Fr	1 52.72	16.76	10 17 59.79	3 39.80	10 34 43.3	20 53.5	64.70	15 51.59
	27	Sa	1 35.96	17.13	10 21 39.59	3 39.43	10 13 49.8	21 3.	64.64	15 51.80
	28	St	+1 18.83	17.48	10 25 19.02	3 39.07	+ 9 52 46.5	21 12.9	64.59	15 52.01
	29	Mo	1 1.35	17.83	10 28 58.09	3 38.72	9 31 33.6	21 22.1	64.53	15 52.22
	30	Di	0 43.52	18.16	10 32 36.81	3 38.39	9 10 11.5	21 31.0	64.48	15 52.44
	31	Mi	0 25.36	18.48	10 36 15.20	3 38.08	8 48 40.5	21 39.4	64.43	15 52.66
Sept.	1	Do	+0 6.88	18.79	10 39 53.28	3 37.77	8 27 1.1	21 47.6	64.38	15 52.89
	2	Fr	−0 11.91		10 43 31.05		+ 8 5 13.5		64.34	15 53.12

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1932.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0h Länge	Untergang in {+50° Breite, 0h Länge
1932	2426	h m s	in 0.001 s		° ′ ″	′ ″	″			h m	h m
Juli 23	911.5	20 2 4.168	+251	+ 2	119 54 17.7	57 17.5	+0.08	0.006 8341	371	4 16	19 56
24	912.5	20 6 0.725	253	− 4	120 51 35.2	57 18.3	+0.20	0.006 7970	389	4 18	19 54
25	913.5	20 9 57.283	255	−10	121 48 53.5	57 19.3	+0.30	0.006 7581	408	4 19	19 53
26	914.5	20 13 53.840	257	−13	122 46 12.8	57 20.3	+0.38	0.006 7173	428	4 20	19 52
27	915.5	20 17 50.397	259	−14	123 43 33.1	57 21.2	+0.45	0.006 6745	448	4 22	19 50
28	916.5	20 21 46.954	260	−13	124 40 54.3	57 22.3	+0.49	0.006 6297	469	4 23	19 49
29	917.5	20 25 43.511	+262	− 9	125 38 16.6	57 23.2	+0.52	0.006 5828	491	4 25	19 48
30	918.5	20 29 40.068	264	− 4	126 35 39.8	57 24.3	+0.51	0.006 5337	514	4 26	19 46
31	919.5	20 33 36.625	265	+ 2	127 33 4.1	57 25.2	+0.47	0.006 4823	538	4 27	19 45
Aug. 1	920.5	20 37 33.182	266	+ 7	128 30 29.3	57 26.2	+0.40	0.006 4285	562	4 28	19 43
2	921.5	20 41 29.739	268	+10	129 27 55.5	57 27.2	+0.32	0.006 3723	586	4 30	19 42
3	922.5	20 45 26.295	269	+12	130 25 22.7	57 28.0	+0.21	0.006 3137	611	4 31	19 40
4	923.5	20 49 22.852	+270	+10	131 22 50.7	57 29.0	+0.08	0.006 2526	634	4 33	19 38
5	924.5	20 53 19.408	271	+ 5	132 20 19.7	57 29.8	−0.06	0.006 1892	658	4 34	19 37
6	925.5	20 57 15.965	272	− 2	133 17 49.5	57 30.5	−0.20	0.006 1234	679	4 36	19 35
7	926.5	21 1 12.521	273	− 8	134 15 20.0	57 31.4	−0.32	0.006 0555	701	4 37	19 33
8	927.5	21 5 9.077	274	−13	135 12 51.4	57 32.1	−0.44	0.005 9854	719	4 38	19 32
9	928.5	21 9 5.633	275	−15	136 10 23.5	57 33.0	−0.53	0.005 9135	737	4 40	19 30
10	929.5	21 13 2.189	+276	−13	137 7 56.5	57 33.7	−0.59	0.005 8398	753	4 42	19 28
11	930.5	21 16 58.745	276	− 8	138 5 30.2	57 34.7	−0.63	0.005 7645	768	4 43	19 26
12	931.5	21 20 55.301	277	− 1	139 3 4.9	57 35.6	−0.64	0.005 6877	780	4 44	19 25
13	932.5	21 24 51.857	277	+ 7	140 0 40.5	57 36.6	−0.60	0.005 6097	792	4 46	19 23
14	933.5	21 28 48.413	278	+13	140 58 17.1	57 37.7	−0.54	0.005 5305	802	4 47	19 21
15	934.5	21 32 44.968	278	+17	141 55 54.8	57 38.9	−0.45	0.005 4503	813	4 49	19 19
16	935.5	21 36 41.524	+278	+18	142 53 33.7	57 40.2	−0.34	0.005 3690	823	4 50	19 17
17	936.5	21 40 38.079	278	+15	143 51 13.9	57 41.5	−0.21	0.005 2867	832	4 52	19 15
18	937.5	21 44 34.635	278	+10	144 48 55.4	57 43.0	−0.07	0.005 2035	842	4 53	19 13
19	938.5	21 48 31.190	278	+ 4	145 46 38.4	57 44.5	+0.07	0.005 1193	852	4 55	19 11
20	939.5	21 52 27.745	278	− 3	146 44 22.9	57 46.1	+0.19	0.005 0341	863	4 56	19 9
21	940.5	21 56 24.301	278	− 9	147 42 9.0	57 47.7	+0.31	0.004 9478	875	4 58	19 7
22	941.5	22 0 20.856	+278	−12	148 39 56.7	57 49.4	+0.41	0.004 8603	887	4 59	19 6
23	942.5	22 4 17.411	277	−14	149 37 46.1	57 51.2	+0.49	0.004 7716	899	5 1	19 4
24	943.5	22 8 13.965	277	−13	150 35 37.3	57 52.8	+0.54	0.004 6817	913	5 2	19 1
25	944.5	22 12 10.520	276	−11	151 33 30.1	57 54.7	+0.57	0.004 5904	928	5 4	18 59
26	945.5	22 16 7.075	276	− 6	152 31 24.8	57 56.5	+0.58	0.004 4976	942	5 5	18 57
27	946.5	22 20 3.630	275	− 1	153 29 21.3	57 58.2	+0.55	0.004 4034	958	5 7	18 55
28	947.5	22 24 0.184	+274	+ 5	154 27 19.5	58 0.0	+0.49	0.004 3076	975	5 8	18 53
29	948.5	22 27 56.739	274	+ 9	155 25 19.5	58 1.8	+0.42	0.004 2101	993	5 10	18 51
30	949.5	22 31 53.294	273	+11	156 23 21.3	58 3.6	+0.32	0.004 1108	1010	5 11	18 49
31	950.5	22 35 49.848	272	+10	157 21 24.9	58 5.2	+0.19	0.004 0098	1028	5 13	18 47
Sept. 1	951.5	22 39 46.402	271	+ 6	158 19 30.1	58 7.0	+0.06	0.003 9070	1047	5 14	18 45
2	952.5	22 43 42.957	+270	+ 1	159 17 37.1		−0.08	0.003 8023		5 16	18 43

Sonne 1932

Tag	Wochentag	Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1932		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 2	Fr	− 0 11.91	19.08	10 43 31.05	3 37.47	+8 5 13.5	21 55.4	64.34	15 53.12
3	Sa	0 30.99	19.36	10 47 8.52	3 37.20	7 43 18.1	22 2.9	64.30	15 53.35
4	St	0 50.35	19.62	10 50 45.72	3 36.93	7 21 15.2	22 9.9	64.26	15 53.59
5	Mo	1 9.97	19.88	10 54 22.65	3 36.67	6 59 5.3	22 16.6	64.22	15 53.83
6	Di	1 29.85	20.11	10 57 59.32	3 36.44	6 36 48.7	22 23.0	64.19	15 54.08
7	Mi	1 49.96	20.33	11 1 35.76	3 36.23	6 14 25.7	22 29.1	64.16	15 54.32
8	Do	− 2 10.29	20.53	11 5 11.99	3 36.02	+5 51 56.6	22 34.8	64.13	15 54.57
9	Fr	2 30.82	20.71	11 8 48.01	3 35.85	5 29 21.8	22 40.2	64.11	15 54.82
10	Sa	2 51.53	20.87	11 12 23.86	3 35.68	5 6 41.6	22 45.3	64.08	15 55.08
11	St	3 12.40	21.00	11 15 59.54	3 35.56	4 43 56.3	22 50.0	64.06	15 55.33
12	Mo	3 33.40	21.11	11 19 35.10	3 35.44	4 21 6.3	22 54.6	64.05	15 55.59
13	Di	3 54.51	21.21	11 23 10.54	3 35.34	3 58 11.7	22 58.7	64.04	15 55.84
14	Mi	− 4 15.72	21.28	11 26 45.88	3 35.28	+3 35 13.0	23 2.6	64.03	15 56.10
15	Do	4 37.00	21.32	11 30 21.16	3 35.23	3 12 10.4	23 6.1	64.02	15 56.36
16	Fr	4 58.32	21.34	11 33 56.39	3 35.22	2 49 4.3	23 9.5	64.01	15 56.62
17	Sa	5 19.66	21.34	11 37 31.61	3 35.21	2 25 54.8	23 12.4	64.01	15 56.87
18	St	5 41.00	21.32	11 41 6.82	3 35.23	2 2 42.4	23 15.0	64.01	15 57.13
19	Mo	6 2.32	21.27	11 44 42.05	3 35.28	1 39 27.4	23 17.4	64.01	15 57.39
20	Di	− 6 23.59	21.21	11 48 17.33	3 35.35	+1 16 10.0	23 19.3	64.01	15 57.65
21	Mi	6 44.80	21.12	11 51 52.68	3 35.43	0 52 50.7	23 21.1	64.02	15 57.91
22	Do	7 5.92	21.01	11 55 28.11	3 35.55	0 29 29.6	23 22.4	64.04	15 58.17
23	Fr	7 26.93	20.87	11 59 3.66	3 35.68	+0 6 7.2	23 23.4	64.06	15 58.44
24	Sa	7 47.80	20.73	12 2 39.34	3 35.83	−0 17 16.2	23 24.0	64.08	15 58.70
25	St	8 8.53	20.55	12 6 15.17	3 36.00	0 40 40.2	23 24.4	64.10	15 58.97
26	Mo	− 8 29.08	20.36	12 9 51.17	3 36.19	−1 4 4.6	23 24.4	64.12	15 59.23
27	Di	8 49.44	20.15	12 13 27.36	3 36.41	1 27 29.0	23 23.9	64.15	15 59.50
28	Mi	9 9.59	19.92	12 17 3.77	3 36.63	1 50 52.9	23 23.2	64.18	15 59.77
29	Do	9 29.51	19.67	12 20 40.40	3 36.88	2 14 16.1	23 22.0	64.21	16 0.04
30	Fr	9 49.18	19.42	12 24 17.28	3 37.14	2 37 38.1	23 20.5	64.25	16 0.32
Okt. 1	Sa	10 8.60	19.14	12 27 54.42	3 37.41	3 0 58.6	23 18.5	64.29	16 0.59
2	St	−10 27.74	18.84	12 31 31.83	3 37.71	−3 24 17.1	23 16.1	64.34	16 0.87
3	Mo	10 46.58	18.54	12 35 9.54	3 38.02	3 47 33.2	23 13.5	64.38	16 1.15
4	Di	11 5.12	18.21	12 38 47.56	3 38.34	4 10 46.7	23 10.3	64.43	16 1.43
5	Mi	11 23.33	17.87	12 42 25.90	3 38.68	4 33 57.0	23 6.9	64.48	16 1.71
6	Do	11 41.20	17.51	12 46 4.58	3 39.05	4 57 3.9	23 3.0	64.54	16 2.00
7	Fr	11 58.71	17.12	12 49 43.63	3 39.43	5 20 6.9	22 58.8	64.60	16 2.28
8	Sa	−12 15.83	16.72	12 53 23.06	3 39.84	−5 43 5.7	22 54.3	64.66	16 2.56
9	St	12 32.55	16.30	12 57 2.90	3 40.25	6 6 0.0	22 49.3	64.72	16 2.85
10	Mo	12 48.85	15.85	13 0 43.15	3 40.71	6 28 49.3	22 44.1	64.78	16 3.13
11	Di	13 4.70	15.38	13 4 23.86	3 41.17	6 51 33.4	22 38.5	64.85	16 3.41
12	Mi	13 20.08	14.90	13 8 5.03	3 41.65	7 14 11.9	22 32.5	64.92	16 3.69
13	Do	−13 34.98		13 11 46.68		−7 36 44.4		65.00	16 3.97

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1932.0 Länge	Diff.	Breite	log R	Diff.	Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1932	2426	h m s	in 0.s001		° ′ ″	′ ″	″			h m	h m
Sept. 2	952.5	22 43 42.957	+270	+ 1	159 17 37.1	58 8.5	−0.08	0.003 8023	1065	5 16	18 43
3	953.5	22 47 39.511	269	− 6	160 15 45.6	58 10.0	−0.21	0.003 6958	1082	5 17	18 41
4	954.5	22 51 36.065	267	−12	161 13 55.6	58 11.6	−0.33	0.003 5876	1097	5 19	18 38
5	955.5	22 55 32.619	266	−14	162 12 7.2	58 13.0	−0.44	0.003 4779	1112	5 20	18 36
6	956.5	22 59 29.173	265	−13	163 10 20.2	58 14.4	−0.52	0.003 3667	1124	5 22	18 34
7	957.5	23 3 25.727	264	− 9	164 8 34.6	58 16.0	−0.56	0.003 2543	1135	5 23	18 32
8	958.5	23 7 22.282	+262	− 2	165 6 50.6	58 17.4	−0.57	0.003 1408	1144	5 25	18 30
9	959.5	23 11 18.836	261	+ 6	166 5 8.0	58 18.9	−0.54	0.003 0264	1151	5 26	18 28
10	960.5	23 15 15.389	259	+12	167 3 26.9	58 20.5	−0.49	0.002 9113	1157	5 28	18 25
11	961.5	23 19 11.943	258	+17	168 1 47.4	58 22.1	−0.41	0.002 7956	1162	5 29	18 23
12	962.5	23 23 8.497	256	+18	169 0 9.5	58 23.8	−0.31	0.002 6794	1165	5 31	18 21
13	963.5	23 27 5.051	255	+17	169 58 33.3	58 25.6	−0.19	0.002 5629	1168	5 32	18 19
14	964.5	23 31 1.605	+253	+12	170 56 58.9	58 27.4	−0.06	0.002 4461	1170	5 33	18 17
15	965.5	23 34 58.158	252	+ 6	171 55 26.3	58 29.3	+0.08	0.002 3291	1171	5 35	18 15
16	966.5	23 38 54.712	250	− 1	172 53 55.6	58 31.2	+0.21	0.002 2120	1174	5 37	18 12
17	967.5	23 42 51.266	248	− 7	173 52 26.8	58 33.3	+0.33	0.002 0946	1175	5 38	18 10
18	968.5	23 46 47.820	247	−12	174 51 0.1	58 35.4	+0.44	0.001 9771	1177	5 40	18 8
19	969.5	23 50 44.373	245	−14	175 49 35.5	58 37.5	+0.53	0.001 8594	1180	5 41	18 6
20	970.5	23 54 40.927	+243	−14	176 48 13.0	58 39.6	+0.59	0.001 7414	1182	5 43	18 4
21	971.5	23 58 37.481	242	−12	177 46 52.6	58 41.9	+0.63	0.001 6232	1186	5 44	18 1
22	972.5	0 2 34.034	240	− 8	178 45 34.5	58 44.1	+0.64	0.001 5046	1190	5 46	17 59
23	973.5	0 6 30.588	238	− 3	179 44 18.6	58 46.3	+0.62	0.001 3856	1194	5 47	17 57
24	974.5	0 10 27.141	236	+ 2	180 43 4.9	58 48.6	+0.57	0.001 2662	1200	5 49	17 55
25	975.5	0 14 23.695	235	+ 7	181 41 53.5	58 50.8	+0.51	0.001 1462	1206	5 50	17 52
26	976.5	0 18 20.249	+233	+10	182 40 44.3	58 53.1	+0.42	0.001 0256	1213	5 52	17 50
27	977.5	0 22 16.802	231	+10	183 39 37.4	58 55.4	+0.30	0.000 9043	1221	5 53	17 48
28	978.5	0 26 13.356	230	+ 7	184 38 32.8	58 57.5	+0.18	0.000 7822	1230	5 55	17 46
29	979.5	0 30 9.910	228	+ 1	185 37 30.3	58 59.6	+0.04	0.000 6592	1238	5 56	17 44
30	980.5	0 34 6.463	226	− 5	186 36 29.9	59 1.6	−0.11	0.000 5354	1248	5 58	17 41
Okt. 1	981.5	0 38 3.017	224	−10	187 35 31.5	59 3.7	−0.25	0.000 4106	1256	5 59	17 39
2	982.5	0 41 59.571	+223	−14	188 34 35.2	59 5.5	−0.36	0.000 2850	1264	6 1	17 37
3	983.5	0 45 56.125	221	−14	189 33 40.7	59 7.3	−0.44	0.000 1586	1270	6 2	17 35
4	984.5	0 49 52.678	220	−11	190 32 48.0	59 9.2	−0.49	0.000 0316	1275	6 4	17 33
5	985.5	0 53 49.232	218	− 4	191 31 57.2	59 10.9	−0.51	9.999 9041	1279	6 6	17 31
6	986.5	0 57 45.786	217	+ 4	192 31 8.1	59 12.6	−0.50	9.999 7762	1279	6 7	17 28
7	987.5	1 1 42.340	215	+11	193 30 20.7	59 14.4	−0.45	9.999 6483	1279	6 9	17 26
8	988.5	1 5 38.894	+214	+17	194 29 35.1	59 16.1	−0.38	9.999 5204	1277	6 10	17 24
9	989.5	1 9 35.448	212	+19	195 28 51.2	59 17.9	−0.27	9.999 3927	1273	6 12	17 22
10	990.5	1 13 32.002	211	+18	196 28 9.1	59 19.7	−0.15	9.999 2654	1268	6 13	17 20
11	991.5	1 17 28.556	210	+14	197 27 28.8	59 21.6	−0.03	9.999 1386	1261	6 15	17 18
12	992.5	1 21 25.110	209	+ 9	198 26 50.4	59 23.5	+0.10	9.999 0125	1255	6 17	17 16
13	993.5	1 25 21.664	+207	+ 2	199 26 13.9		+0.23	9.998 8870		6 18	17 14

Tag		Wochentag	0h Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1932			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Okt.	13	Do	−13 34.98	14.39	13 11 46.68	3 42.17	− 7 36 44.4	22 26.2	65.00	16 3.97
	14	Fr	13 49.37	13.85	13 15 28.85	3 42.70	7 59 10.6	22 19.6	65.07	16 4.24
	15	Sa	14 3.22	13.31	13 19 11.55	3 43.25	8 21 30.2	22 12.6	65.15	16 4.52
	16	St	14 16.53	12.73	13 22 54.80	3 43.82	8 43 42.8	22 5.2	65.24	16 4.79
	17	Mo	14 29.26	12.13	13 26 38.62	3 44.42	9 5 48.0	21 57.4	65.32	16 5.06
	18	Di	14 41.39	11.53	13 30 23.04	3 45.03	9 27 45.4	21 49.3	65.41	16 5.33
	19	Mi	−14 52.92	10.89	13 34 8.07	3 45.66	− 9 49 34.7	21 40.9	65.50	16 5.60
	20	Do	15 3.81	10.24	13 37 53.73	3 46.32	10 11 15.6	21 32.0	65.59	16 5.87
	21	Fr	15 14.05	9.57	13 41 40.05	3 46.98	10 32 47.6	21 22.7	65.69	16 6.13
	22	Sa	15 23.62	8.89	13 45 27.03	3 47.66	10 54 10.3	21 13.1	65.78	16 6.39
	23	St	15 32.51	8.19	13 49 14.69	3 48.37	11 15 23.4	21 3.0	65.88	16 6.65
	24	Mo	15 40.70	7.47	13 53 3.06	3 49.09	11 36 26.4	20 52.6	65.98	16 6.91
	25	Di	−15 48.17	6.74	13 56 52.15	3 49.81	−11 57 19.0	20 41.7	66.08	16 7.17
	26	Mi	15 54.91	6.00	14 0 41.96	3 50.56	12 18 0.7	20 30.5	66.19	16 7.43
	27	Do	16 0.91	5.25	14 4 32.52	3 51.30	12 38 31.2	20 18.8	66.29	16 7.69
	28	Fr	16 6.16	4.48	14 8 23.82	3 52.07	12 58 50.0	20 6.6	66.40	16 7.94
	29	Sa	16 10.64	3.72	14 12 15.89	3 52.84	13 18 56.6	19 54.1	66.51	16 8.20
	30	St	16 14.36	2.95	14 16 8.73	3 53.61	13 38 50.7	19 41.0	66.62	16 8.45
	31	Mo	−16 17.31	2.17	14 20 2.34	3 54.39	−13 58 31.7	19 27.6	66.73	16 8.71
Nov.	1	Di	16 19.48	1.38	14 23 56.73	3 55.17	14 17 59.3	19 13.7	66.85	16 8.96
	2	Mi	16 20.86	0.59	14 27 51.90	3 55.96	14 37 13.0	18 59.4	66.96	16 9.22
	3	Do	16 21.45	0.20	14 31 47.86	3 56.76	14 56 12.4	18 44.6	67.07	16 9.47
	4	Fr	16 21.25	1.00	14 35 44.62	3 57.56	15 14 57.0	18 29.6	67.19	16 9.72
	5	Sa	16 20.25	1.81	14 39 42.18	3 58.36	15 33 26.6	18 14.1	67.31	16 9.97
	6	St	−16 18.44	2.62	14 43 40.54	3 59.18	−15 51 40.7	17 58.1	67.42	16 10.22
	7	Mo	16 15.82	3.44	14 47 39.72	4 0.00	16 9 38.8	17 41.8	67.54	16 10.47
	8	Di	16 12.38	4.27	14 51 39.72	4 0.82	16 27 20.6	17 25.1	67.66	16 10.71
	9	Mi	16 8.11	5.10	14 55 40.54	4 1.66	16 44 45.7	17 8.1	67.78	16 10.95
	10	Do	16 3.01	5.93	14 59 42.20	4 2.49	17 1 53.8	16 50.6	67.90	16 11.18
	11	Fr	15 57.08	6.78	15 3 44.69	4 3.34	17 18 44.4	16 32.8	68.02	16 11.41
	12	Sa	−15 50.30	7.62	15 7 48.03	4 4.18	−17 35 17.2	16 14.6	68.14	16 11.64
	13	St	15 42.68	8.47	15 11 52.21	4 5.02	17 51 31.8	15 56.0	68.26	16 11.86
	14	Mo	15 34.21	9.32	15 15 57.23	4 5.87	18 7 27.8	15 37.0	68.38	16 12.08
	15	Di	15 24.89	10.17	15 20 3.10	4 6.73	18 23 4.8	15 17.6	68.50	16 12.30
	16	Mi	15 14.72	11.01	15 24 9.83	4 7.57	18 38 22.4	14 58.0	68.62	16 12.51
	17	Do	15 3.71	11.87	15 28 17.40	4 8.42	18 53 20.4	14 37.8	68.73	16 12.71
	18	Fr	−14 51.84	12.71	15 32 25.82	4 9.27	−19 7 58.2	14 17.3	68.85	16 12.91
	19	Sa	14 39.13	13.55	15 36 35.09	4 10.11	19 22 15.5	13 56.5	68.96	16 13.11
	20	St	14 25.58	14.38	15 40 45.20	4 10.94	19 36 12.0	13 35.3	69.08	16 13.30
	21	Mo	14 11.20	15.22	15 44 56.14	4 11.77	19 49 47.3	13 13.7	69.19	16 13.49
	22	Di	13 55.98	16.03	15 49 7.91	4 12.59	20 3 1.0	12 51.7	69.30	16 13.68
	23	Mi	−13 39.95		15 53 20.50		−20 15 52.7		69.41	16 13.86

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1932.0 Länge	Diff.	Breite	log *R*	Diff.	Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1932	242	h m s	in 0.001 s		° ′ ″	′ ″	″			h m	h m
Okt. 13	6993.5	1 25 21.664	+207	+ 2	199 26 13.9	59 25.5	+0.23	9.998 8870	1246	6 18	17 14
14	6994.5	1 29 18.219	206	− 5	200 25 39.4	59 27.5	+0.36	9.998 7624	1238	6 20	17 12
15	6995.5	1 33 14.773	205	−10	201 25 6.9	59 29.5	+0.47	9.998 6386	1230	6 21	17 10
16	6996.5	1 37 11.327	204	−13	202 24 36.4	59 31.6	+0.56	9.998 5156	1220	6 23	17 8
17	6997.5	1 41 7.882	203	−13	203 24 8.0	59 33.8	+0.63	9.998 3936	1212	6 24	17 6
18	6998.5	1 45 4.436	202	−12	204 23 41.8	59 36.0	+0.67	9.998 2724	1203	6 26	17 4
19	6999.5	1 49 0.991	+202	− 9	205 23 17.8	59 38.1	+0.69	9.998 1521	1195	6 28	17 2
20	7000.5	1 52 57.545	201	− 4	206 22 55.9	59 40.4	+0.68	9.998 0326	1186	6 29	17 0
21	7001.5	1 56 54.100	200	+ 1	207 22 36.3	59 42.6	+0.64	9.997 9140	1179	6 31	16 58
22	7002.5	2 0 50.655	200	+ 6	208 22 18.9	59 44.9	+0.58	9.997 7961	1173	6 33	16 56
23	7003.5	2 4 47.210	199	+ 9	209 22 3.8	59 47.1	+0.49	9.997 6788	1166	6 34	16 54
24	7004.5	2 8 43.765	199	+ 9	210 21 50.9	59 49.4	+0.37	9.997 5622	1161	6 36	16 52
25	7005.5	2 12 40.320	+199	+ 7	211 21 40.3	59 51.6	+0.25	9.997 4461	1157	6 38	16 50
26	7006.5	2 16 36.875	198	+ 2	212 21 31.9	59 53.8	+0.12	9.997 3304	1154	6 39	16 48
27	7007.5	2 20 33.430	198	− 4	213 21 25.7	59 56.0	−0.01	9.997 2150	1151	6 41	16 46
28	7008.5	2 24 29.985	198	−10	214 21 21.7	59 57.9	−0.14	9.997 0999	1149	6 42	16 45
29	7009.5	2 28 26.541	198	−14	215 21 19.6	60 0.0	−0.25	9.996 9850	1148	6 44	16 43
30	7010.5	2 32 23.096	198	−15	216 21 19.6	60 1.8	−0.34	9.996 8702	1146	6 46	16 41
31	7011.5	2 36 19.652	+198	−13	217 21 21.4	60 3.6	−0.40	9.996 7556	1143	6 47	16 39
Nov. 1	7012.5	2 40 16.208	199	− 7	218 21 25.0	60 5.3	−0.43	9.996 6413	1139	6 49	16 38
2	7013.5	2 44 12.763	199	+ 1	219 21 30.3	60 6.8	−0.42	9.996 5274	1135	6 51	16 36
3	7014.5	2 48 9.319	200	+ 9	220 21 37.1	60 8.5	−0.38	9.996 4139	1127	6 52	16 34
4	7015.5	2 52 5.875	200	+15	221 21 45.6	60 9.9	−0.32	9.996 3012	1118	6 54	16 33
5	7016.5	2 56 2.431	201	+20	222 21 55.5	60 11.5	−0.23	9.996 1894	1108	6 56	16 31
6	7017.5	2 59 58.987	+202	+20	223 22 7.0	60 12.9	−0.12	9.996 0786	1095	6 57	16 29
7	7018.5	3 3 55.544	203	+17	224 22 19.9	60 14.5	+0.01	9.995 9691	1082	6 59	16 28
8	7019.5	3 7 52.100	204	+11	225 22 34.4	60 16.0	+0.14	9.995 8609	1067	7 1	16 26
9	7020.5	3 11 48.656	205	+ 4	226 22 50.4	60 17.5	+0.27	9.995 7542	1050	7 2	16 25
10	7021.5	3 15 45.213	206	− 2	227 23 7.9	60 19.0	+0.39	9.995 6492	1033	7 4	16 23
11	7022.5	3 19 41.770	207	− 8	228 23 26.9	60 20.6	+0.50	9.995 5459	1015	7 6	16 22
12	7023.5	3 23 38.326	+208	−12	229 23 47.5	60 22.3	+0.59	9.995 4444	997	7 7	16 20
13	7024.5	3 27 34.883	210	−13	230 24 9.8	60 23.8	+0.66	9.995 3447	978	7 9	16 19
14	7025.5	3 31 31.440	211	−12	231 24 33.6	60 25.5	+0.70	9.995 2469	958	7 11	16 18
15	7026.5	3 35 27.997	213	− 9	232 24 59.1	60 27.2	+0.72	9.995 1511	939	7 12	16 16
16	7027.5	3 39 24.554	215	− 5	233 25 26.3	60 28.9	+0.71	9.995 0572	920	7 14	16 15
17	7028.5	3 43 21.111	217	0	234 25 55.2	60 30.7	+0.68	9.994 9652	900	7 16	16 14
18	7029.5	3 47 17.669	+219	+ 5	235 26 25.9	60 32.3	+0.62	9.994 8752	882	7 17	16 13
19	7030.5	3 51 14.226	221	+ 9	236 26 58.2	60 34.1	+0.55	9.994 7870	864	7 19	16 12
20	7031.5	3 55 10.783	223	+10	237 27 32.3	60 35.9	+0.45	9.994 7006	846	7 20	16 11
21	7032.5	3 59 7.341	225	+ 8	238 28 8.2	60 37.6	+0.33	9.994 6160	830	7 22	16 10
22	7033.5	4 3 3.899	227	+ 4	239 28 45.8	60 39.3	+0.20	9.994 5330	814	7 23	16 9
23	7034.5	4 7 0.457	+230	− 2	240 29 25.1		+0.07	9.994 4516		7 25	16 8

Sonne 1932

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung Mittlere Zeit *minus* Wahre Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1932									
Nov. 23	Mi	−13 39.95	16.83	15 53 20.50	4 13.40	−20 15 52.7	12 29.3	69.41	16 13.86
24	Do	13 23.12	17.63	15 57 33.90	4 14.18	20 28 22.0	12 6.7	69.52	16 14.04
25	Fr	13 5.49	18.41	16 1 48.08	4 14.96	20 40 28.7	11 43.6	69.62	16 14.22
26	Sa	12 47.08	19.16	16 6 3.04	4 15.72	20 52 12.3	11 20.2	69.72	16 14.39
27	St	12 27.92	19.90	16 10 18.76	4 16.46	21 3 32.5	10 56.4	69.82	16 14.56
28	Mo	12 8.02	20.61	16 14 35.22	4 17.17	21 14 28.9	10 32.3	69.92	16 14.73
29	Di	−11 47.41	21.30	16 18 52.39	4 17.86	−21 25 1.2	10 7.9	70.02	16 14.90
30	Mi	11 26.11	21.96	16 23 10.25	4 18.52	21 35 9.1	9 43.2	70.11	16 15.06
Dez. 1	Do	11 4.15	22.60	16 27 28.77	4 19.16	21 44 52.3	9 18.1	70.20	16 15.22
2	Fr	10 41.55	23.21	16 31 47.93	4 19.77	21 54 10.4	8 52.8	70.29	16 15.38
3	Sa	10 18.34	23.81	16 36 7.70	4 20.37	22 3 3.2	8 27.3	70.37	16 15.54
4	St	9 54.53	24.37	16 40 28.07	4 20.93	22 11 30.5	8 1.4	70.45	16 15.69
5	Mo	−9 30.16	24.91	16 44 49.00	4 21.47	−22 19 31.9	7 35.4	70.53	16 15.83
6	Di	9 5.25	25.43	16 49 10.47	4 21.98	22 27 7.3	7 9.1	70.61	16 15.98
7	Mi	8 39.82	25.92	16 53 32.45	4 22.48	22 34 16.4	6 42.6	70.68	16 16.12
8	Do	8 13.90	26.38	16 57 54.93	4 22.94	22 40 59.0	6 15.9	70.75	16 16.25
9	Fr	7 47.52	26.83	17 2 17.87	4 23.38	22 47 14.9	5 49.0	70.82	16 16.38
10	Sa	7 20.69	27.24	17 6 41.25	4 23.80	22 53 3.9	5 22.0	70.88	16 16.50
11	St	−6 53.45	27.62	17 11 5.05	4 24.19	−22 58 25.9	4 54.7	70.93	16 16.61
12	Mo	6 25.83	27.99	17 15 29.24	4 24.54	23 3 20.6	4 27.3	70.98	16 16.72
13	Di	5 57.84	28.32	17 19 53.78	4 24.88	23 7 47.9	3 59.8	71.03	16 16.83
14	Mi	5 29.52	28.62	17 24 18.66	4 25.18	23 11 47.7	3 32.2	71.07	16 16.93
15	Do	5 0.90	28.90	17 28 43.84	4 25.46	23 15 19.9	3 4.3	71.11	16 17.02
16	Fr	4 32.00	29.15	17 33 9.30	4 25.71	23 18 24.2	2 36.5	71.14	16 17.11
17	Sa	−4 2.85	29.36	17 37 35.01	4 25.92	−23 21 0.7	2 8.5	71.17	16 17.19
18	St	3 33.49	29.55	17 42 0.93	4 26.11	23 23 9.2	1 40.4	71.20	16 17.27
19	Mo	3 3.94	29.71	17 46 27.04	4 26.27	23 24 49.6	1 12.2	71.22	16 17.34
20	Di	2 34.23	29.83	17 50 53.31	4 26.39	23 26 1.8	0 43.9	71.23	16 17.40
21	Mi	2 4.40	29.93	17 55 19.70	4 26.48	23 26 45.7	0 15.8	71.24	16 17.46
22	Do	1 34.47	29.97	17 59 46.18	4 26.54	23 27 1.5	0 12.6	71.25	16 17.51
23	Fr	−1 4.50	30.00	18 4 12.72	4 26.56	−23 26 48.9	0 40.9	71.26	16 17.56
24	Sa	0 34.50	29.98	18 8 39.28	4 26.54	23 26 8.0	1 9.3	71.26	16 17.61
25	St	−0 4.52	29.93	18 13 5.82	4 26.48	23 24 58.7	1 37.5	71.25	16 17.65
26	Mo	+0 25.41	29.83	18 17 32.30	4 26.39	23 23 21.2	2 5.8	71.24	16 17.69
27	Di	0 55.24	29.69	18 21 58.69	4 26.25	23 21 15.4	2 34.0	71.22	16 17.72
28	Mi	1 24.93	29.52	18 26 24.94	4 26.08	23 18 41.4	3 2.1	71.20	16 17.75
29	Do	+1 54.45	29.31	18 30 51.02	4 25.87	−23 15 39.3	3 30.1	71.17	16 17.78
30	Fr	2 23.76	29.05	18 35 16.89	4 25.61	23 12 9.2	3 58.0	71.14	16 17.80
31	Sa	2 52.81	28.77	18 39 42.50	4 25.33	23 8 11.2	4 25.8	71.10	16 17.82
32	St	+3 21.58		18 44 7.83		−23 3 45.4		71.06	16 17.84

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1932.0 Länge	Diff.	Breite	log R	Diff.	Aufgang	Untergang
1932	2427	h m s	in 0.001 s		° ′ ″	′ ″	″			h m	h m
Nov. 23	034.5	4 7 0.457	+230	− 2	240 29 25.1	60 41.0	+0.07	9.994 4516	800	7 25	16 8
24	035.5	4 10 57.014	232	− 9	241 30 6.1	60 42.7	−0.06	9.994 3716	787	7 26	16 7
25	036.5	4 14 53.572	235	−14	242 30 48.8	60 44.2	−0.17	9.994 2929	774	7 28	16 6
26	037.5	4 18 50.130	237	−17	243 31 33.0	60 45.7	−0.26	9.994 2155	763	7 29	16 5
27	038.5	4 22 46.688	240	−16	244 32 18.7	60 47.1	−0.33	9.994 1392	752	7 31	16 4
28	039.5	4 26 43.247	243	−11	245 33 5.8	60 48.3	−0.36	9.994 0640	742	7 32	16 3
29	040.5	4 30 39.805	+246	− 4	246 33 54.1	60 49.5	−0.35	9.993 9898	729	7 34	16 3
30	041.5	4 34 36.363	249	+ 5	247 34 43.6	60 50.5	−0.32	9.993 9169	718	7 35	16 2
Dez. 1	042.5	4 38 32.922	252	+13	248 35 34.1	60 51.5	−0.26	9.993 8451	704	7 36	16 1
2	043.5	4 42 29.480	255	+18	249 36 25.6	60 52.3	−0.18	9.993 7747	689	7 38	16 1
3	044.5	4 46 26.039	258	+20	250 37 17.9	60 53.2	−0.08	9.993 7058	672	7 39	16 0
4	045.5	4 50 22.597	261	+18	251 38 11.1	60 53.9	+0.05	9.993 6386	654	7 40	16 0
5	046.5	4 54 19.156	+265	+13	252 39 5.0	60 54.7	+0.19	9.993 5732	634	7 41	15 59
6	047.5	4 58 15.714	268	+ 7	253 39 59.7	60 55.4	+0.31	9.993 5098	614	7 43	15 59
7	048.5	5 2 12.273	271	+ 1	254 40 55.1	60 56.2	+0.43	9.993 4484	591	7 44	15 59
8	049.5	5 6 8.832	275	− 6	255 41 51.3	60 56.8	+0.54	9.993 3893	567	7 45	15 59
9	050.5	5 10 5.391	278	−10	256 42 48.1	60 57.6	+0.62	9.993 3326	544	7 46	15 58
10	051.5	5 14 1.950	282	−12	257 43 45.7	60 58.3	+0.69	9.993 2782	518	7 47	15 58
11	052.5	5 17 58.509	+285	−12	258 44 44.0	60 59.0	+0.74	9.993 2264	493	7 48	15 58
12	053.5	5 21 55.068	289	−10	259 45 43.0	60 59.8	+0.76	9.993 1771	467	7 49	15 58
13	054.5	5 25 51.627	293	− 6	260 46 42.8	61 0.6	+0.76	9.993 1304	440	7 50	15 58
14	055.5	5 29 48.186	296	− 1	261 47 43.4	61 1.3	+0.73	9.993 0864	414	7 51	15 58
15	056.5	5 33 44.745	300	+ 4	262 48 44.7	61 2.1	+0.68	9.993 0450	387	7 52	15 59
16	057.5	5 37 41.304	304	+ 8	263 49 46.8	61 2.9	+0.59	9.993 0063	361	7 53	15 59
17	058.5	5 41 37.863	+307	+10	264 50 49.7	61 3.7	+0.48	9.992 9702	335	7 53	15 59
18	059.5	5 45 34.422	311	+ 9	265 51 53.4	61 4.5	+0.36	9.992 9367	310	7 54	15 59
19	060.5	5 49 30.981	315	+ 6	266 52 57.9	61 5.4	+0.24	9.992 9057	286	7 55	16 0
20	061.5	5 53 27.540	319	0	267 54 3.3	61 6.2	+0.12	9.992 8771	263	7 55	16 0
21	062.5	5 57 24.100	323	− 7	268 55 9.5	61 6.9	−0.01	9.992 8508	241	7 56	16 0
22	063.5	6 1 20.659	327	−13	269 56 16.4	61 7.7	−0.12	9.992 8267	221	7 56	16 1
23	064.5	6 5 17.218	+330	−17	270 57 24.1	61 8.4	−0.21	9.992 8046	202	7 57	16 1
24	065.5	6 9 13.777	334	−17	271 58 32.5	61 9.0	−0.28	9.992 7844	184	7 57	16 2
25	066.5	6 13 10.336	338	−14	272 59 41.5	61 9.5	−0.31	9.992 7660	167	7 58	16 3
26	067.5	6 17 6.896	342	− 7	274 0 51.0	61 10.0	−0.32	9.992 7493	152	7 58	16 3
27	068.5	6 21 3.455	346	+ 1	275 2 1.0	61 10.2	−0.29	9.992 7341	135	7 58	16 4
28	069.5	6 25 0.014	349	+ 9	276 3 11.2	61 10.4	−0.24	9.992 7206	120	7 58	16 5
29	070.5	6 28 56.573	+353	+16	277 4 21.6	61 10.4	−0.15	9.992 7086	104	7 59	16 6
30	071.5	6 32 53.132	357	+19	278 5 32.0	61 10.4	−0.04	9.992 6982	87	7 59	16 7
31	072.5	6 36 49.691	360	+18	279 6 42.4	61 10.3	+0.08	9.992 6895	69	7 59	16 8
32	073.5	6 40 46.250	+364	+15	280 7 52.7		+0.21	9.992 6826		7 59	16 8

Header notes: 0ʰ Welt-Zeit; Aufgang / Untergang in {+50° Breite, 0ʰ Länge}

Welt-Zeit		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
		Mittleres Äquinoktium 1932.0								
1932	h									
Jan. 0	0	+0.142 7348	8 6463	−16597	−0.892 5319	1 2045	−2220	−0.387 1239	5221	− 965
0	12	0.151 3811	8 6349		0.891 3274	1 2738		0.386 6018	5522	
1	0	0.160 0160	8 6230	16551	0.890 0536	1 3431	2491	0.386 0496	5822	1083
1	12	0.168 6390	8 6102		0.888 7105	1 4124		0.385 4674	6123	
2	0	0.177 2492	8 5968	16500	0.887 2981	1 4815	2760	0.384 8551	6423	1200
2	12	0.185 8460	8 5828		0.885 8166	1 5507		0.384 2128	6724	
3	0	+0.194 4288	8 5680	−16444	−0.884 2659	1 6197	−3029	−0.383 5404	7022	−1317
3	12	0.202 9968	8 5526		0.882 6462	1 6887		0.382 8382	7323	
4	0	0.211 5494	8 5363	16383	0.880 9575	1 7576	3296	0.382 1059	7621	1434
4	12	0.220 0857	8 5195		0.879 1999	1 8263		0.381 3438	7920	
5	0	0.228 6052	8 5018	16316	0.877 3736	1 8950	3563	0.380 5518	8218	1550
5	12	0.237 1070	8 4835		0.875 4786	1 9634		0.379 7300	8516	
6	0	+0.245 5905	8 4645	−16244	−0.873 5152	2 0317	−3829	−0.378 8784	8812	−1666
6	12	0.254 0550	8 4448		0.871 4835	2 1000		0.377 9972	9108	
7	0	0.262 4998	8 4243	16168	0.869 3835	2 1679	4094	0.377 0864	9404	1781
7	12	0.270 9241	8 4032		0.867 2156	2 2358		0.376 1460	9698	
8	0	0.279 3273	8 3813	16086	0.864 9798	2 3035	4357	0.375 1762	9992	1895
8	12	0.287 7086	8 3588		0.862 6763	2 3709		0.374 1770	1 0286	
9	0	+0.296 0674	8 3355	−16000	−0.860 3054	2 4381	−4619	−0.373 1484	1 0578	−2009
9	12	0.304 4029	8 3116		0.857 8673	2 5052		0.372 0906	1 0868	
10	0	0.312 7145	8 2870	15908	0.855 3621	2 5719	4879	0.371 0038	1 1158	2122
10	12	0.321 0015	8 2618		0.852 7902	2 6385		0.369 8880	1 1447	
11	0	0.329 2633	8 2358	15811	0.850 1517	2 7049	5138	0.368 7433	1 1735	2235
11	12	0.337 4991	8 2092		0.847 4468	2 7709		0.367 5698	1 2021	
12	0	+0.345 7083	8 1819	−15710	−0.844 6759	2 8367	−5396	−0.366 3677	1 2307	−2346
12	12	0.353 8902	8 1542		0.841 8392	2 9024		0.365 1370	1 2591	
13	0	0.362 0444	8 1257	15603	0.838 9368	2 9676	5651	0.363 8779	1 2875	2457
13	12	0.370 1701	8 0963		0.835 9692	3 0326		0.362 5904	1 3157	
14	0	0.378 2664	8 0666	15492	0.832 9366	3 0974	5905	0.361 2747	1 3437	2568
14	12	0.386 3330	8 0363		0.829 8392	3 1618		0.359 9310	1 3717	
15	0	+0.394 3693	8 0052	−15376	−0.826 6774	3 2260	−6157	−0.358 5593	1 3995	−2677
15	12	0.402 3745	7 9736		0.823 4514	3 2898		0.357 1598	1 4273	
16	0	0.410 3481	7 9414	15255	0.820 1616	3 3535	6407	0.355 7325	1 4548	2786
16	12	0.418 2895	7 9086		0.816 8081	3 4168		0.354 2777	1 4823	
17	0	0.426 1981	7 8751	15130	0.813 3913	3 4798	6655	0.352 7954	1 5096	2894
17	12	0.434 0732	7 8412		0.809 9115	3 5426		0.351 2858	1 5367	
18	0	+0.441 9144	7 8066	−15000	−0.806 3689	3 6050	−6901	−0.349 7491	1 5638	−3001
18	12	0.449 7210	7 7715		0.802 7639	3 6670		0.348 1853	1 5907	
19	0	0.457 4925	7 7357	14865	0.799 0969	3 7287	7145	0.346 5946	1 6174	3107
19	12	0.465 2282	7 6994		0.795 3682	3 7902		0.344 9772	1 6441	
20	0	0.472 9276	7 6625	−14725	0.791 5780	3 8513	−7386	0.343 3331	1 6705	−3212
20	12	+0.480 5901			−0.787 7267			−0.341 6626		

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932										
Jan. 20	12h	+0.480 5901	7 6252		−0.787 7267	3 9121		−0.341 6626	1 6968	
21	0	0.488 2153	7 5872	−14581	0.783 8146	3 9726	− 7625	0.339 9658	1 7231	−3316
21	12	0.495 8025	7 5489		0.779 8420	4 0329		0.338 2427	1 7491	
22	0	0.503 3514	7 5098	14432	0.775 8091	4 0927	7862	0.336 4936	1 7751	3419
22	12	0.510 8612	7 4704		0.771 7164	4 1523		0.334 7185	1 8008	
23	0	0.518 3316	7 4303	14279	0.767 5641	4 2114	8096	0.332 9177	1 8264	3521
23	12	+0.525 7619	7 3897		−0.763 3527	4 2703		−0.331 0913	1 8520	
24	0	0.533 1516	7 3485	−14121	0.759 0824	4 3289	− 8328	0.329 2393	1 8774	−3622
24	12	0.540 5001	7 3070		0.754 7535	4 3871		0.327 3619	1 9027	
25	0	0.547 8071	7 2648	13959	0.750 3664	4 4451	8558	0.325 4592	1 9277	3722
25	12	0.555 0719	7 2223		0.745 9213	4 5028		0.323 5315	1 9528	
26	0	0.562 2942	7 1791	13793	0.741 4185	4 5601	8785	0.321 5787	1 9775	3821
26	12	+0.569 4733	7 1354		−0.736 8584	4 6171		−0.319 6012	2 0022	
27	0	0.576 6087	7 0911	−13623	0.732 2413	4 6738	− 9009	0.317 5990	2 0268	−3918
27	12	0.583 6998	7 0464		0.727 5675	4 7302		0.315 5722	2 0513	
28	0	0.590 7462	7 0009	13448	0.722 8373	4 7862	9230	0.313 5209	2 0756	4014
28	12	0.597 7471	6 9552		0.718 0511	4 8418		0.311 4453	2 0998	
29	0	0.604 7023	6 9087	13270	0.713 2093	4 8972	9448	0.309 3455	2 1238	4109
29	12	+0.611 6110	6 8618		−0.708 3121	4 9522		−0.307 2217	2 1476	
30	0	0.618 4728	6 8142	−13087	0.703 3599	5 0068	− 9664	0.305 0741	2 1714	−4203
30	12	0.625 2870	6 7663		0.698 3531	5 0612		0.302 9027	2 1950	
31	0	0.632 0533	6 7176	12900	0.693 2919	5 1151	9877	0.300 7077	2 2184	4295
31	12	0.638 7709	6 6685		0.688 1768	5 1687		0.298 4893	2 2416	
Febr. 1	0	0.645 4394	6 6187	12709	0.683 0081	5 2218	10086	0.296 2477	2 2648	4386
1	12	+0.652 0581	6 5685		−0.677 7863	5 2746		−0.293 9829	2 2877	
2	0	0.658 6266	6 5177	−12514	0.672 5117	5 3269	−10293	0.291 6952	2 3104	−4476
2	12	0.665 1443	6 4664		0.667 1848	5 3788		0.289 3848	2 3330	
3	0	0.671 6107	6 4145	12315	0.661 8060	5 4303	10496	0.287 0518	2 3554	4564
3	12	0.678 0252	6 3621		0.656 3757	5 4814		0.284 6964	2 3775	
4	0	0.684 3873	6 3091	12112	0.650 8943	5 5320	10696	0.282 3189	2 3995	4651
4	12	+0.690 6964	6 2557		−0.645 3623	5 5823		−0.279 9194	2 4214	
5	0	0.696 9521	6 2017	−11905	0.639 7800	5 6319	−10893	0.277 4980	2 4429	−4736
5	12	0.703 1538	6 1473		0.634 1481	5 6812		0.275 0551	2 4643	
6	0	0.709 3011	6 0922	11695	0.628 4669	5 7299	11086	0.272 5908	2 4855	4820
6	12	0.715 3933	6 0369		0.622 7370	5 7781		0.270 1053	2 5065	
7	0	0.721 4302	5 9808	11481	0.616 9589	5 8259	11276	0.267 5988	2 5273	4903
7	12	+0.727 4110	5 9245		−0.611 1330	5 8733		−0.265 0715	2 5478	
8	0	0.733 3355	5 8675	−11264	0.605 2597	5 9201	−11462	0.262 5237	2 5681	−4984
8	12	0.739 2030	5 8103		0.599 3396	5 9664		0.259 9556	2 5881	
9	0	0.745 0133	5 7525	11043	0.593 3732	6 0122	11645	0.257 3675	2 6080	5064
9	12	0.750 7658	5 6943		0.587 3610	6 0575		0.254 7595	2 6277	
10	0	+0.756 4601		−10819	−0.581 3035		−11824	−0.252 1318		−5142

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932										
Febr. 10	0ʰ	+0.756 4601	5 6356	−10819	−0.581 3035	6 1022	−11824	−0.252 1318	2 6471	−5142
10	12	0.762 0957	5 5767		0.575 2013	6 1464		0.249 4847	2 6663	
11	0	0.767 6724	5 5172	10591	0.569 0549	6 1902	11999	0.246 8184	2 6852	5219
11	12	0.773 1896	5 4574		0.562 8647	6 2334		0.244 1332	2 7040	
12	0	0.778 6470	5 3972	10361	0.556 6313	6 2760	12171	0.241 4292	2 7225	5294
12	12	0.784 0442	5 3365		0.550 3553	6 3183		0.238 7067	2 7407	
13	0	+0.789 3807	5 2756	−10127	−0.544 0370	6 3599	−12339	−0.235 9660	2 7587	−5367
13	12	0.794 6563	5 2143		0.537 6771	6 4010		0.233 2073	2 7766	
14	0	0.799 8706	5 1525	9890	0.531 2761	6 4416	12504	0.230 4307	2 7942	5438
14	12	0.805 0231	5 0905		0.524 8345	6 4816		0.227 6365	2 8114	
15	0	0.810 1136	5 0280	9650	0.518 3529	6 5211	12665	0.224 8251	2 8286	5507
15	12	0.815 1416	4 9653		0.511 8318	6 5602		0.221 9965	2 8455	
16	0	+0.820 1069	4 9022	− 9406	−0.505 2716	6 5986	−12821	−0.219 1510	2 8621	−5575
16	12	0.825 0091	4 8388		0.498 6730	6 6365		0.216 2889	2 8786	
17	0	0.829 8479	4 7751	9160	0.492 0365	6 6739	12974	0.213 4103	2 8947	5641
17	12	0.834 6230	4 7112		0.485 3626	6 7107		0.210 5156	2 9106	
18	0	0.839 3342	4 6469	8912	0.478 6519	6 7470	13122	0.207 6050	2 9263	5706
18	12	0.843 9811	4 5823		0.471 9049	6 7829		0.204 6787	2 9419	
19	0	+0.848 5634	4 5174	− 8660	−0.465 1220	6 8180	−13267	−0.201 7368	2 9571	−5769
19	12	0.853 0808	4 4523		0.458 3040	6 8529		0.198 7797	2 9722	
20	0	0.857 5331	4 3869	8406	0.451 4511	6 8871	13408	0.195 8075	2 9869	5830
20	12	0.861 9200	4 3213		0.444 5640	6 9209		0.192 8206	3 0015	
21	0	0.866 2413	4 2553	8149	0.437 6431	6 9540	13544	0.189 8191	3 0159	5890
21	12	0.870 4966	4 1891		0.430 6891	6 9867		0.186 8032	3 0301	
22	0	+0.874 6857	4 1227	− 7890	−0.423 7024	7 0189	−13676	−0.183 7731	3 0440	−5947
22	12	0.878 8084	4 0559		0.416 6835	7 0506		0.180 7291	3 0578	
23	0	0.882 8643	3 9889	7629	0.409 6329	7 0818	13804	0.177 6713	3 0713	6003
23	12	0.886 8532	3 9217		0.402 5511	7 1126		0.174 6000	3 0845	
24	0	0.890 7749	3 8541	7365	0.395 4385	7 1427	13928	0.171 5155	3 0977	6057
24	12	0.894 6290	3 7863		0.388 2958	7 1724		0.168 4178	3 1106	
25	0	+0.898 4153	3 7182	− 7099	−0.381 1234	7 2016	−14048	−0.165 3072	3 1232	−6109
25	12	0.902 1335	3 6498		0.373 9218	7 2302		0.162 1840	3 1357	
26	0	0.905 7833	3 5812	6831	0.366 6916	7 2584	14163	0.159 0483	3 1479	6159
26	12	0.909 3645	3 5122		0.359 4332	7 2860		0.155 9004	3 1599	
27	0	0.912 8767	3 4429	6560	0.352 1472	7 3130	14274	0.152 7405	3 1717	6208
27	12	0.916 3196	3 3736		0.344 8342	7 3397		0.149 5688	3 1834	
28	0	+0.919 6932	3 3037	− 6288	−0.337 4945	7 3657	−14381	−0.146 3854	3 1946	−6254
28	12	0.922 9969	3 2338		0.330 1288	7 3911		0.143 1908	3 2057	
29	0	0.926 2307	3 1634	6014	0.322 7377	7 4160	14484	0.139 9851	3 2165	6299
29	12	0.929 3941	3 0928		0.315 3217	7 4404		0.136 7686	3 2271	
März 1	0	0.932 4869	3 0219	− 5738	0.307 8813	7 4641	−14582	0.133 5415	3 2375	−6342
1	12	+0.935 5088			−0.300 4172			−0.130 3040		

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1932	h									
März 1	12	+0.935 5088	2 9509		−0.300 4172	7 4873		−0.130 3040	3 2476	
2	0	0.938 4597	2 8795	−5460	0.292 9299	7 5099	−14676	0.127 0564	3 2575	−6382
2	12	0.941 3392	2 8079		0.285 4200	7 5320		0.123 7989	3 2670	
3	0	0.944 1471	2 7361	5180	0.277 8880	7 5534	14765	0.120 5319	3 2763	6421
3	12	0.946 8832	2 6642		0.270 3346	7 5743		0.117 2556	3 2854	
4	0	0.949 5474	2 5919	4899	0.262 7603	7 5944	14850	0.113 9702	3 2942	6457
4	12	+0.952 1393	2 5195		−0.255 1659	7 6140		−0.110 6760	3 3028	
5	0	0.954 6588	2 4469	−4616	0.247 5519	7 6330	−14930	0.107 3732	3 3110	−6492
5	12	0.957 1057	2 3741		0.239 9189	7 6514		0.104 0622	3 3190	
6	0	0.959 4798	2 3011	4332	0.232 2675	7 6691	15006	0.100 7432	3 3267	6525
6	12	0.961 7809	2 2279		0.224 5984	7 6863		0.097 4165	3 3342	
7	0	0.964 0088	2 1546	4047	0.216 9121	7 7028	15077	0.094 0823	3 3413	6556
7	12	+0.966 1634	2 0812		−0.209 2093	7 7186		−0.090 7410	3 3482	
8	0	0.968 2446	2 0077	−3760	0.201 4907	7 7339	−15143	0.087 3928	3 3548	−6585
8	12	0.970 2523	1 9340		0.193 7568	7 7486		0.084 0380	3 3612	
9	0	0.972 1863	1 8602	3473	0.186 0082	7 7625	15205	0.080 6768	3 3673	6612
9	12	0.974 0465	1 7862		0.178 2457	7 7760		0.077 3095	3 3731	
10	0	0.975 8327	1 7122	3184	0.170 4697	7 7887	15262	0.073 9364	3 3785	6637
10	12	+0.977 5449	1 6383		−0.162 6810	7 8009		−0.070 5579	3 3838	
11	0	0.979 1832	1 5640	−2894	0.154 8801	7 8124	−15315	0.067 1741	3 3887	−6660
11	12	0.980 7472	1 4898		0.147 0677	7 8233		0.063 7854	3 3935	
12	0	0.982 2370	1 4156	2604	0.139 2444	7 8336	15363	0.060 3919	3 3979	6681
12	12	0.983 6526	1 3412		0.131 4108	7 8432		0.056 9940	3 4021	
13	0	0.984 9938	1 2668	2312	0.123 5676	7 8522	15406	0.053 5919	3 4060	6699
13	12	+0.986 2606	1 1924		−0.115 7154	7 8606		−0.050 1859	3 4096	
14	0	0.987 4530	1 1179	−2020	0.107 8548	7 8684	−15445	0.046 7763	3 4130	−6716
14	12	0.988 5709	1 0435		0.099 9864	7 8757		0.043 3633	3 4160	
15	0	0.989 6144	9690	1727	0.092 1107	7 8822	15479	0.039 9473	3 4188	6731
15	12	0.990 5834	8946		0.084 2285	7 8883		0.036 5285	3 4214	
16	0	0.991 4780	8201	1434	0.076 3402	7 8936	15508	0.033 1071	3 4236	6744
16	12	+0.992 2981	7457		−0.068 4466	7 8985		−0.029 6835	3 4257	
17	0	0.993 0438	6712	−1140	0.060 5481	7 9026	−15533	0.026 2578	3 4275	−6755
17	12	0.993 7150	5968		0.052 6455	7 9062		0.022 8303	3 4290	
18	0	0.994 3118	5224	846	0.044 7393	7 9092	15553	0.019 4013	3 4303	6763
18	12	0.994 8342	4481		0.036 8301	7 9116		0.015 9710	3 4313	
19	0	0.995 2823	3738	552	0.028 9185	7 9134	15568	0.012 5397	3 4321	6770
19	12	+0.995 6561	2997		−0.021 0051	7 9149		−0.009 1076	3 4326	
20	0	0.995 9558	2254	− 258	0.013 0902	7 9156	−15579	0.005 6750	3 4330	−6775
20	12	0.996 1812	1512		−0.005 1746	7 9158		−0.002 2420	3 4330	
21	0	0.996 3324	771	+ 36	+0.002 7412	7 9154	15585	+0.001 1910	3 4328	6778
21	12	0.996 4095	32		0.010 6566	7 9146		0.004 6238	3 4325	
22	0	+0.996 4127		+ 330	+0.018 5712		−15586	+0.008 0563		−6778

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932	h									
März 22	0	+0.996 4127	708	+ 330	+0.018 5712	7 9131	−15586	+0.008 0563	3 4318	−6778
22	12	0.996 3419	1448		0.026 4843	7 9111		0.011 4881	3 4310	
23	0	0.996 1971	2186	625	0.034 3954	7 9086	15583	0.014 9191	3 4299	6777
23	12	0.995 9785	2926		0.042 3040	7 9057		0.018 3490	3 4286	
24	0	0.995 6859	3665	919	0.050 2097	7 9021	15575	0.021 7776	3 4271	6773
24	12	0.995 3194	4403		0.058 1118	7 8979		0.025 2047	3 4253	
25	0	+0.994 8791	5141	+1213	+0.066 0097	7 8932	−15563	+0.028 6300	3 4233	−6768
25	12	0.994 3650	5880		0.073 9029	7 8880		0.032 0533	3 4211	
26	0	0.993 7770	6617	1507	0.081 7909	7 8822	15546	0.035 4744	3 4186	6761
26	12	0.993 1153	7353		0.089 6731	7 8760		0.038 8930	3 4159	
27	0	0.992 3800	8090	1800	0.097 5491	7 8690	15524	0.042 3089	3 4129	6752
27	12	0.991 5710	8826		0.105 4181	7 8617		0.045 7218	3 4098	
28	0	+0.990 6884	9563	+2092	+0.113 2798	7 8535	−15498	+0.049 1316	3 4064	−6740
28	12	0.989 7321	1 0298		0.121 1333	7 8450		0.052 5380	3 4026	
29	0	0.988 7023	1 1033	2384	0.128 9783	7 8357	15467	0.055 9406	3 3986	6727
29	12	0.987 5990	1 1767		0.136 8140	7 8259		0.059 3392	3 3945	
30	0	0.986 4223	1 2500	2675	0.144 6399	7 8155	15432	0.062 7337	3 3900	6711
30	12	0.985 1723	1 3233		0.152 4554	7 8045		0.066 1237	3 3853	
31	0	+0.983 8490	1 3964	+2966	+0.160 2599	7 7929	−15392	+0.069 5090	3 3803	−6694
31	12	0.982 4526	1 4695		0.168 0528	7 7808		0.072 8893	3 3751	
April 1	0	0.980 9831	1 5424	3255	0.175 8336	7 7680	15347	0.076 2644	3 3696	6675
1	12	0.979 4407	1 6153		0.183 6016	7 7545		0.079 6340	3 3638	
2	0	0.977 8254	1 6880	3544	0.191 3561	7 7406	15298	0.082 9978	3 3577	6653
2	12	0.976 1374	1 7605		0.199 0967	7 7260		0.086 3555	3 3513	
3	0	+0.974 3769	1 8329	+3831	+0.206 8227	7 7109	−15244	+0.089 7068	3 3448	−6630
3	12	0.972 5440	1 9052		0.214 5336	7 6951		0.093 0516	3 3380	
4	0	0.970 6388	1 9773	4118	0.222 2287	7 6787	15186	0.096 3896	3 3309	6604
4	12	0.968 6615	2 0492		0.229 9074	7 6618		0.099 7205	3 3235	
5	0	0.966 6123	2 1209	4403	0.237 5692	7 6442	15123	0.103 0440	3 3159	6577
5	12	0.964 4914	2 1925		0.245 2134	7 6260		0.106 3599	3 3080	
6	0	+0.962 2989	2 2638	+4687	+0.252 8394	7 6073	−15056	+0.109 6679	3 2999	−6548
6	12	0.960 0351	2 3349		0.260 4467	7 5880		0.112 9678	3 2915	
7	0	0.957 7002	2 4058	4969	0.268 0347	7 5680	14984	0.116 2593	3 2828	6516
7	12	0.955 2944	2 4765		0.275 6027	7 5477		0.119 5421	3 2740	
8	0	0.952 8179	2 5470	5250	0.283 1504	7 5265	14908	0.122 8161	3 2648	6483
8	12	0.950 2709	2 6172		0.290 6769	7 5049		0.126 0809	3 2553	
9	0	+0.947 6537	2 6872	+5530	+0.298 1818	7 4827	−14828	+0.129 3362	3 2456	−6448
9	12	0.944 9665	2 7568		0.305 6645	7 4600		0.132 5818	3 2359	
10	0	0.942 2097	2 8262	5808	0.313 1245	7 4367	14743	0.135 8177	3 2257	6411
10	12	0.939 3835	2 8954		0.320 5612	7 4129		0.139 0434	3 2153	
11	0	0.936 4881	2 9643	+6084	0.327 9741	7 3884	−14653	0.142 2587	3 2046	−6372
11	12	+0.933 5238			+0.335 3625			+0.145 4633		

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932	h									
April 11	12	+0.933 5238	3 0329		+0.335 3625	7 3634		+0.145 4633	3 1938	
12	0	0.930 4909	3 1012	+ 6359	0.342 7259	7 3379	−14560	0.148 6571	3 1827	−6332
12	12	0.927 3897	3 1692		0.350 0638	7 3120		0.151 8398	3 1714	
13	0	0.924 2205	3 2369	6631	0.357 3758	7 2854	14462	0.155 0112	3 1598	6289
13	12	0.920 9836	3 3044		0.364 6612	7 2583		0.158 1710	3 1481	
14	0	0.917 6792	3 3714	6902	0.371 9195	7 2306	14360	0.161 3191	3 1360	6245
14	12	+0.914 3078	3 4382		+0.379 1501	7 2027		+0.164 4551	3 1238	
15	0	0.910 8696	3 5046	+ 7170	0.386 3528	7 1740	−14253	0.167 5789	3 1113	−6199
15	12	0.907 3650	3 5707		0.393 5268	7 1450		0.170 6902	3 0987	
16	0	0.903 7943	3 6365	7437	0.400 6718	7 1154	14143	0.173 7889	3 0858	6151
16	12	0.900 1578	3 7019		0.407 7872	7 0854		0.176 8747	3 0729	
17	0	0.896 4559	3 7670	7701	0.414 8726	7 0549	14028	0.179 9476	3 0596	6101
17	12	+0.892 6889	3 8318		+0.421 9275	7 0239		+0.183 0072	3 0461	
18	0	0.888 8571	3 8962	+ 7962	0.428 9514	6 9925	−13910	0.186 0533	3 0325	−6049
18	12	0.884 9609	3 9605		0.435 9439	6 9607		0.189 0858	3 0187	
19	0	0.881 0004	4 0242	8222	0.442 9046	6 9283	13787	0.192 1045	3 0047	5996
19	12	0.876 9762	4 0878		0.449 8329	6 8956		0.195 1092	2 9905	
20	0	0.872 8884	4 1510	8479	0.456 7285	6 8624	13660	0.198 0997	2 9761	5941
20	12	+0.868 7374	4 2138		+0.463 5909	6 8289		+0.201 0758	2 9616	
21	0	0.864 5236	4 2764	+ 8734	0.470 4198	6 7948	−13530	0.204 0374	2 9469	−5884
21	12	0.860 2472	4 3386		0.477 2146	6 7603		0.206 9843	2 9319	
22	0	0.855 9086	4 4006	8986	0.483 9749	6 7254	13395	0.209 9162	2 9168	5825
22	12	0.851 5080	4 4624		0.490 7003	6 6900		0.212 8330	2 9015	
23	0	0.847 0456	4 5238	9236	0.497 3903	6 6541	13257	0.215 7345	2 8860	5765
23	12	+0.842 5218	4 5848		+0.504 0444	6 6180		+0.218 6205	2 8703	
24	0	0.837 9370	4 6456	+ 9483	0.510 6624	6 5812	−13115	0.221 4908	2 8544	−5703
24	12	0.833 2914	4 7061		0.517 2436	6 5440		0.224 3452	2 8385	
25	0	0.828 5853	4 7663	9727	0.523 7876	6 5063	12969	0.227 1837	2 8221	5639
25	12	0.823 8190	4 8261		0.530 2939	6 4683		0.230 0058	2 8056	
26	0	0.818 9929	4 8856	9969	0.536 7622	6 4296	12819	0.232 8114	2 7889	5574
26	12	+0.814 1073	4 9449		+0.543 1918	6 3907		+0.235 6003	2 7721	
27	0	0.809 1624	5 0037	+10207	0.549 5825	6 3511	−12665	0.238 3724	2 7549	−5507
27	12	0.804 1587	5 0623		0.555 9336	6 3111		0.241 1273	2 7376	
28	0	0.799 0964	5 1204	10443	0.562 2447	6 2707	12508	0.243 8649	2 7200	5439
28	12	0.793 9760	5 1782		0.568 5154	6 2297		0.246 5849	2 7023	
29	0	0.788 7978	5 2356	10675	0.574 7451	6 1883	12347	0.249 2872	2 6844	5369
29	12	+0.783 5622	5 2926		+0.580 9334	6 1465		+0.251 9716	2 6663	
30	0	0.778 2696	5 3492	+10904	0.587 0799	6 1041	−12183	0.254 6379	2 6479	−5298
30	12	0.772 9204	5 4055		0.593 1840	6 0614		0.257 2858	2 6294	
Mai 1	0	0.767 5149	5 4613	11131	0.599 2454	6 0181	12015	0.259 9152	2 6106	5225
1	12	0.762 0536	5 5168		0.605 2635	5 9744		0.262 5258	2 5916	
2	0	+0.756 5368		+11354	+0.611 2379		−11843	+0.265 1174		−5150

Welt-Zeit			Mittleres Äquinoktium 1932.0								
			X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932		h									
Mai	2	0	+0.756 5368	5 5717	+11354	+0.611 2379	5 9303	−11843	+0.265 1174	2 5725	−5150
	2	12	0.750 9651	5 6264		0.617 1682	5 8857		0.267 6899	2 5532	
	3	0	0.745 3387	5 6804	11573	0.623 0539	5 8407	11668	0.270 2431	2 5337	5074
	3	12	0.739 6583	5 7341		0.628 8946	5 7953		0.272 7768	2 5139	
	4	0	0.733 9242	5 7874	11790	0.634 6899	5 7493	11489	0.275 2907	2 4940	4996
	4	12	0.728 1368	5 8402		0.640 4392	5 7030		0.277 7847	2 4738	
	5	0	+0.722 2966	5 8926	+12003	+0.646 1422	5 6562	−11307	+0.280 2585	2 4535	−4917
	5	12	0.716 4040	5 9444		0.651 7984	5 6091		0.282 7120	2 4331	
	6	0	0.710 4596	5 9958	12213	0.657 4075	5 5615	11123	0.285 1451	2 4124	4837
	6	12	0.704 4638	6 0468		0.662 9690	5 5135		0.287 5575	2 3916	
	7	0	0.698 4170	6 0971	12419	0.668 4825	5 4652	10935	0.289 9491	2 3705	4755
	7	12	0.692 3199	6 1472		0.673 9477	5 4164		0.292 3196	2 3493	
	8	0	+0.686 1727	6 1966	+12621	+0.679 3641	5 3673	−10743	+0.294 6689	2 3279	−4672
	8	12	0.679 9761	6 2456		0.684 7314	5 3177		0.296 9968	2 3065	
	9	0	0.673 7305	6 2939	12820	0.690 0491	5 2677	10549	0.299 3033	2 2848	4587
	9	12	0.667 4366	6 3420		0.695 3168	5 2175		0.301 5881	2 2630	
	10	0	0.661 0946	6 3894	13015	0.700 5343	5 1668	10351	0.303 8511	2 2409	4501
	10	12	0.654 7052	6 4363		0.705 7011	5 1159		0.306 0920	2 2188	
	11	0	+0.648 2689	6 4826	+13207	+0.710 8170	5 0645	−10151	+0.308 3108	2 1964	−4414
	11	12	0.641 7863	6 5285		0.715 8815	5 0129		0.310 5072	2 1740	
	12	0	0.635 2578	6 5739	13394	0.720 8944	4 9609	9947	0.312 6812	2 1514	4325
	12	12	0.628 6839	6 6187		0.725 8553	4 9085		0.314 8326	2 1288	
	13	0	0.622 0652	6 6630	13578	0.730 7638	4 8559	9741	0.316 9614	2 1059	4236
	13	12	0.615 4022	6 7068		0.735 6197	4 8029		0.319 0673	2 0829	
	14	0	+0.608 6954	6 7500	+13758	+0.740 4226	4 7496	− 9532	+0.321 1502	2 0599	−4145
	14	12	0.601 9454	6 7926		0.745 1722	4 6962		0.323 2101	2 0365	
	15	0	0.595 1528	6 8348	13934	0.749 8684	4 6423	9320	0.325 2466	2 0131	4053
	15	12	0.588 3180	6 8765		0.754 5107	4 5884		0.327 2597	1 9898	
	16	0	0.581 4415	6 9176	14106	0.759 0991	4 5341	9106	0.329 2495	1 9662	3960
	16	12	0.574 5239	6 9582		0.763 6332	4 4794		0.331 2157	1 9425	
	17	0	+0.567 5657	6 9984	+14273	+0.768 1126	4 4245	− 8889	+0.333 1582	1 9187	−3866
	17	12	0.560 5673	7 0380		0.772 5371	4 3696		0.335 0769	1 8949	
	18	0	0.553 5293	7 0771	14437	0.776 9067	4 3142	8670	0.336 9718	1 8709	3771
	18	12	0.546 4522	7 1158		0.781 2209	4 2587		0.338 8427	1 8469	
	19	0	0.539 3364	7 1539	14597	0.785 4796	4 2028	8448	0.340 6896	1 8227	3674
	19	12	0.532 1825	7 1916		0.789 6824	4 1469		0.342 5123	1 7984	
	20	0	+0.524 9909	7 2287	+14752	+0.793 8293	4 0904	− 8224	+0.344 3107	1 7740	−3576
	20	12	0.517 7622	7 2655		0.797 9197	4 0339		0.346 0847	1 7496	
	21	0	0.510 4967	7 3017	14904	0.801 9536	3 9770	7998	0.347 8343	1 7250	3478
	21	12	0.503 1950	7 3375		0.805 9306	3 9200		0.349 5593	1 7002	
	22	0	0.495 8575	7 3728	+15051	0.809 8506	3 8627	− 7769	0.351 2595	1 6754	−3378
	22	12	+0.488 4847			+0.813 7133			+0.352 9349		

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932										
Mai 22	12h	+0.488 4847	7 4077		+0.813 7133	3 8051		+0.352 9349	1 6505	
23	0	0.481 0770	7 4420	+15193	0.817 5184	3 7472	−7538	0.354 5854	1 6254	−3278
23	12	0.473 6350	7 4758		0.821 2656	3 6892		0.356 2108	1 6003	
24	0	0.466 1592	7 5092	15332	0.824 9548	3 6307	7304	0.357 8111	1 5750	3176
24	12	0.458 6500	7 5421		0.828 5855	3 5722		0.359 3861	1 5495	
25	0	0.451 1079	7 5744	15466	0.832 1577	3 5132	7069	0.360 9356	1 5240	3074
25	12	+0.443 5335	7 6062		+0.835 6709	3 4540		+0.362 4596	1 4984	
26	0	0.435 9273	7 6376	+15596	0.839 1249	3 3945	−6832	0.363 9580	1 4726	−2970
26	12	0.428 2897	7 6684		0.842 5194	3 3349		0.365 4306	1 4468	
27	0	0.420 6213	7 6987	15721	0.845 8543	3 2748	6592	0.366 8774	1 4208	2866
27	12	0.412 9226	7 7283		0.849 1291	3 2147		0.368 2982	1 3946	
28	0	0.405 1943	7 7574	15842	0.852 3438	3 1541	6351	0.369 6928	1 3684	2762
28	12	+0.397 4369	7 7861		+0.855 4979	3 0935		+0.371 0612	1 3420	
29	0	0.389 6508	7 8141	+15958	0.858 5914	3 0325	−6108	0.372 4032	1 3156	−2656
29	12	0.381 8367	7 8416		0.861 6239	2 9714		0.373 7188	1 2891	
30	0	0.373 9951	7 8685	16070	0.864 5953	2 9099	5863	0.375 0079	1 2624	2550
30	12	0.366 1266	7 8949		0.867 5052	2 8483		0.376 2703	1 2357	
31	0	0.358 2317	7 9206	16177	0.870 3535	2 7864	5616	0.377 5060	1 2089	2443
31	12	+0.350 3111	7 9459		+0.873 1399	2 7243		+0.378 7149	1 1819	
Juni 1	0	0.342 3652	7 9703	+16280	0.875 8642	2 6620	−5368	0.379 8968	1 1549	−2335
1	12	0.334 3949	7 9944		0.878 5262	2 5996		0.381 0517	1 1277	
2	0	0.326 4005	8 0177	16378	0.881 1258	2 5368	5118	0.382 1794	1 1005	2226
2	12	0.318 3828	8 0405		0.883 6626	2 4741		0.383 2799	1 0732	
3	0	0.310 3423	8 0627	16471	0.886 1367	2 4110	4867	0.384 3531	1 0458	2117
3	12	+0.302 2796	8 0843		+0.888 5477	2 3478		+0.385 3989	1 0184	
4	0	0.294 1953	8 1053	+16560	0.890 8955	2 2843	−4614	0.386 4173	9908	−2007
4	12	0.286 0900	8 1257		0.893 1798	2 2208		0.387 4081	9633	
5	0	0.277 9643	8 1454	16644	0.895 4006	2 1571	4361	0.388 3714	9356	1897
5	12	0.269 8189	8 1646		0.897 5577	2 0932		0.389 3070	9078	
6	0	0.261 6543	8 1830	16724	0.899 6509	2 0292	4106	0.390 2148	8800	1786
6	12	+0.253 4713	8 2008		+0.901 6801	1 9651		+0.391 0948	8523	
7	0	0.245 2705	8 2181	+16798	0.903 6452	1 9008	−3849	0.391 9471	8243	−1674
7	12	0.237 0524	8 2347		0.905 5460	1 8365		0.392 7714	7963	
8	0	0.228 8177	8 2507	16868	0.907 3825	1 7720	3592	0.393 5677	7683	1562
8	12	0.220 5670	8 2661		0.909 1545	1 7074		0.394 3360	7403	
9	0	0.212 3009	8 2807	16933	0.910 8619	1 6427	3334	0.395 0763	7122	1450
9	12	+0.204 0202	8 2950		+0.912 5046	1 5780		+0.395 7885	6841	
10	0	0.195 7252	8 3084	+16993	0.914 0826	1 5132	−3074	0.396 4726	6560	−1337
10	12	0.187 4168	8 3213		0.915 5958	1 4483		0.397 1286	6278	
11	0	0.179 0955	8 3335	17048	0.917 0441	1 3834	2814	0.397 7564	5997	1224
11	12	0.170 7620	8 3452		0.918 4275	1 3185		0.398 3561	5715	
12	0	+0.162 4168		+17098	+0.919 7460		−2554	+0.398 9276		−1111

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932	h									
Juni 12	0	+0.162 4168	8 3562	+17098	+0.919 7460	1 2535	−2554	+0.398 9276	5433	−1111
12	12	0.154 0606	8 3666		0.920 9995	1 1884		0.399 4709	5151	
13	0	0.145 6940	8 3765	17144	0.922 1879	1 1233	2292	0.399 9860	4868	997
13	12	0.137 3175	8 3857		0.923 3112	1 0583		0.400 4728	4586	
14	0	0.128 9318	8 3944	17185	0.924 3695	9931	2030	0.400 9314	4304	883
14	12	0.120 5374	8 4025		0.925 3626	9280		0.401 3618	4022	
15	0	+0.112 1349	8 4100	+17221	+0.926 2906	8628	−1767	+0.401 7640	3740	− 769
15	12	0.103 7249	8 4171		0.927 1534	7977		0.402 1380	3459	
16	0	0.095 3078	8 4235	17252	0.927 9511	7326	1504	0.402 4839	3176	654
16	12	0.086 8843	8 4293		0.928 6837	6674		0.402 8015	2894	
17	0	0.078 4550	8 4346	17278	0.929 3511	6022	1241	0.403 0909	2610	540
17	12	0.070 0204	8 4395		0.929 9533	5370		0.403 3519	2329	
18	0	+0.061 5809	8 4437	+17300	+0.930 4903	4717	− 977	+0.403 5848	2046	− 425
18	12	0.053 1372	8 4475		0.930 9620	4066		0.403 7894	1764	
19	0	0.044 6897	8 4506	17316	0.931 3686	3413	712	0.403 9658	1480	310
19	12	0.036 2391	8 4533		0.931 7099	2760		0.404 1138	1199	
20	0	0.027 7858	8 4553	17328	0.931 9859	2107	448	0.404 2337	915	195
20	12	0.019 3305	8 4569		0.932 1966	1454		0.404 3252	633	
21	0	+0.010 8736	8 4579	+17335	+0.932 3420	799	− 183	+0.404 3885	349	− 80
21	12	+0.002 4157	8 4583		0.932 4219	146		0.404 4234	66	
22	0	−0.006 0426	8 4582	17337	0.932 4365	509	+ 81	0.404 4300	218	+ 35
22	12	0.014 5008	8 4576		0.932 3856	1164		0.404 4082	502	
23	0	0.022 9584	8 4562	17334	0.932 2692	1818	346	0.404 3580	785	150
23	12	0.031 4146	8 4545		0.932 0874	2474		0.404 2795	1070	
24	0	−0.039 8691	8 4519	+17326	+0.931 8400	3129	+ 610	+0.404 1725	1354	+ 265
24	12	0.048 3210	8 4490		0.931 5271	3784		0.404 0371	1638	
25	0	0.056 7700	8 4453	17314	0.931 1487	4439	875	0.403 8733	1923	380
25	12	0.065 2153	8 4412		0.930 7048	5096		0.403 6810	2207	
26	0	0.073 6565	8 4362	17296	0.930 1952	5750	1139	0.403 4603	2491	495
26	12	0.082 0927	8 4309		0.929 6202	6406		0.403 2112	2776	
27	0	−0.090 5236	8 4248	+17274	+0.928 9796	7061	+1402	+0.402 9336	3059	+ 610
27	12	0.098 9484	8 4183		0.928 2735	7716		0.402 6277	3344	
28	0	0.107 3667	8 4110	17247	0.927 5019	8370	1666	0.402 2933	3628	725
28	12	0.115 7777	8 4032		0.926 6649	9024		0.401 9305	3912	
29	0	0.124 1809	8 3947	17215	0.925 7625	9678	1929	0.401 5393	4196	840
29	12	0.132 5756	8 3857		0.924 7947	1 0332		0.401 1197	4480	
30	0	−0.140 9613	8 3759	+17178	+0.923 7615	1 0984	+2192	+0.400 6717	4763	+ 954
30	12	0.149 3372	8 3656		0.922 6631	1 1636		0.400 1954	5046	
Juli 1	0	0.157 7028	8 3546	17136	0.921 4995	1 2288	2454	0.399 6908	5329	1068
1	12	0.166 0574	8 3431		0.920 2707	1 2939		0.399 1579	5612	
2	0	0.174 4005	8 3309	+17089	0.918 9768	1 3589	+2715	0.398 5967	5894	+1181
2	12	−0.182 7314			+0.917 6179			+0.398 0073		

Welt-Zeit			Mittleres Äquinoktium 1932.0								
			X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1932											
Juli	2	12h	−0.182 7314	8 3181		+0.917 6179	1 4237		+0.398 0073	6177	
	3	0	0.191 0495	8 3046	+17038	0.916 1942	1 4886	+2975	0.397 3896	6458	+1294
	3	12	0.199 3541	8 2906		0.914 7056	1 5534		0.396 7438	6739	
	4	0	0.207 6447	8 2759	16982	0.913 1522	1 6180	3235	0.396 0699	7019	1407
	4	12	0.215 9206	8 2605		0.911 5342	1 6825		0.395 3680	7300	
	5	0	0.224 1811	8 2446	16920	0.909 8517	1 7469	3493	0.394 6380	7579	1519
	5	12	−0.232 4257	8 2280		+0.908 1048	1 8111		+0.393 8801	7858	
	6	0	0.240 6537	8 2108	+16854	0.906 2937	1 8751	+3751	0.393 0943	8136	+1631
	6	12	0.248 8645	8 1931		0.904 4186	1 9391		0.392 2807	8413	
	7	0	0.257 0576	8 1746	16784	0.902 4795	2 0028	4007	0.391 4394	8690	1743
	7	12	0.265 2322	8 1556		0.900 4767	2 0664		0.390 5704	8966	
	8	0	0.273 3878	8 1359	16708	0.898 4103	2 1297	4263	0.389 6738	9241	1854
	8	12	−0.281 5237	8 1157		+0.896 2806	2 1930		+0.388 7497	9516	
	9	0	0.289 6394	8 0949	+16628	0.894 0876	2 2560	+4517	0.387 7981	9789	+1965
	9	12	0.297 7343	8 0735		0.891 8316	2 3188		0.386 8192	1 0061	
	10	0	0.305 8078	8 0515	16543	0.889 5128	2 3814	4770	0.385 8131	1 0333	2075
	10	12	0.313 8593	8 0291		0.887 1314	2 4438		0.384 7798	1 0603	
	11	0	0.321 8884	8 0060	16454	0.884 6876	2 5059	5022	0.383 7195	1 0872	2184
	11	12	−0.329 8944	7 9823		+0.882 1817	2 5679		+0.382 6323	1 1141	
	12	0	0.337 8767	7 9580	+16360	0.879 6138	2 6296	+5272	0.381 5182	1 1408	+2293
	12	12	0.345 8347	7 9335		0.876 9842	2 6912		0.380 3774	1 1675	
	13	0	0.353 7682	7 9082	16261	0.874 2930	2 7525	5521	0.379 2099	1 1941	2401
	13	12	0.361 6764	7 8824		0.871 5405	2 8136		0.378 0158	1 2205	
	14	0	0.369 5588	7 8562	16157	0.868 7269	2 8745	5769	0.376 7953	1 2468	2509
	14	12	−0.377 4150	7 8295		+0.865 8524	2 9351		+0.375 5485	1 2731	
	15	0	0.385 2445	7 8022	+16049	0.862 9173	2 9955	+6015	0.374 2754	1 2993	+2615
	15	12	0.393 0467	7 7745		0.859 9218	3 0557		0.372 9761	1 3253	
	16	0	0.400 8212	7 7461	15937	0.856 8661	3 1156	6258	0.371 6508	1 3513	2721
	16	12	0.408 5673	7 7174		0.853 7505	3 1754		0.370 2995	1 3772	
	17	0	0.416 2847	7 6881	15820	0.850 5751	3 2350	6500	0.368 9223	1 4029	2827
	17	12	−0.423 9728	7 6584		+0.847 3401	3 2943		+0.367 5194	1 4287	
	18	0	0.431 6312	7 6281	+15699	0.844 0458	3 3535	+6740	0.366 0907	1 4543	+2931
	18	12	0.439 2593	7 5976		0.840 6923	3 4125		0.364 6364	1 4799	
	19	0	0.446 8569	7 5663	15574	0.837 2798	3 4713	6978	0.363 1565	1 5053	3035
	19	12	0.454 4232	7 5345		0.833 8085	3 5298		0.361 6512	1 5307	
	20	0	0.461 9577	7 5022	15444	0.830 2787	3 5881	7214	0.360 1205	1 5559	3138
	20	12	−0.469 4599	7 4695		+0.826 6906	3 6462		+0.358 5646	1 5811	
	21	0	0.476 9294	7 4362	+15310	0.823 0444	3 7041	+7449	0.356 9835	1 6062	+3239
	21	12	0.484 3656	7 4025		0.819 3403	3 7617		0.355 3773	1 6313	
	22	0	0.491 7681	7 3681	15171	0.815 5786	3 8193	7681	0.353 7460	1 6562	3340
	22	12	0.499 1362	7 3334		0.811 7593	3 8765		0.352 0898	1 6811	
	23	0	−0.506 4696		+15028	+0.807 8828		+7911	+0.350 4087		+3440

Sonnenkoordinaten 1932

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932										
Juli 23	0h	−0.506 4696	7 2979	+15028	+0.807 8828	3 9335	+ 7911	+0.350 4087	1 7058	+3440
23	12	0.513 7675	7 2621		0.803 9493	3 9904		0.348 7029	1 7304	
24	0	0.521 0296	7 2257	14881	0.799 9589	4 0469	8139	0.346 9725	1 7550	3539
24	12	0.528 2553	7 1887		0.795 9120	4 1031		0.345 2175	1 7794	
25	0	0.535 4440	7 1512	14730	0.791 8089	4 1592	8365	0.343 4381	1 8037	3637
25	12	0.542 5952	7 1133		0.787 6497	4 2151		0.341 6344	1 8280	
26	0	−0.549 7085	7 0747	+14574	+0.783 4346	4 2705	+ 8588	+0.339 8064	1 8521	+3734
26	12	0.556 7832	7 0357		0.779 1641	4 3258		0.337 9543	1 8761	
27	0	0.563 8189	6 9960	14415	0.774 8383	4 3807	8809	0.336 0782	1 9000	3830
27	12	0.570 8149	6 9559		0.770 4576	4 4355		0.334 1782	1 9237	
28	0	0.577 7708	6 9152	14251	0.766 0221	4 4899	9027	0.332 2545	1 9474	3925
28	12	0.584 6860	6 8741		0.761 5322	4 5441		0.330 3071	1 9709	
29	0	−0.591 5601	6 8324	+14083	+0.756 9881	4 5979	+ 9243	+0.328 3362	1 9942	+4019
29	12	0.598 3925	6 7902		0.752 3902	4 6514		0.326 3420	2 0175	
30	0	0.605 1827	6 7474	13912	0.747 7388	4 7046	9456	0.324 3245	2 0406	4112
30	12	0.611 9301	6 7042		0.743 0342	4 7575		0.322 2839	2 0637	
31	0	0.618 6343	6 6603	13736	0.738 2767	4 8101	9666	0.320 2202	2 0866	4203
31	12	0.625 2946	6 6160		0.733 4666	4 8623		0.318 1336	2 1092	
Aug. 1	0	−0.631 9106	6 5711	+13557	+0.728 6043	4 9141	+ 9874	+0.316 0244	2 1317	+4294
1	12	0.638 4817	6 5258		0.723 6902	4 9658		0.313 8927	2 1541	
2	0	0.645 0075	6 4798	13373	0.718 7244	5 0169	10079	0.311 7386	2 1763	4383
2	12	0.651 4873	6 4334		0.713 7075	5 0678		0.309 5623	2 1984	
3	0	0.657 9207	6 3865	13185	0.708 6397	5 1182	10281	0.307 3639	2 2203	4471
3	12	0.664 3072	6 3391		0.703 5215	5 1683		0.305 1436	2 2421	
4	0	−0.670 6463	6 2912	+12994	+0.698 3532	5 2180	+10480	+0.302 9015	2 2635	+4558
4	12	0.676 9375	6 2428		0.693 1352	5 2671		0.300 6380	2 2850	
5	0	0.683 1803	6 1940	12799	0.687 8681	5 3161	10677	0.298 3530	2 3061	4643
5	12	0.689 3743	6 1447		0.682 5520	5 3645		0.296 0469	2 3272	
6	0	0.695 5190	6 0949	12601	0.677 1875	5 4125	10870	0.293 7197	2 3480	4727
6	12	0.701 6139	6 0447		0.671 7750	5 4602		0.291 3717	2 3686	
7	0	−0.707 6586	5 9940	+12399	+0.666 3148	5 5073	+11060	+0.289 0031	2 3890	+4810
7	12	0.713 6526	5 9430		0.660 8075	5 5540		0.286 6141	2 4093	
8	0	0.719 5956	5 8915	12194	0.655 2535	5 6003	11247	0.284 2048	2 4293	4891
8	12	0.725 4871	5 8397		0.649 6532	5 6463		0.281 7755	2 4492	
9	0	0.731 3268	5 7874	11985	0.644 0069	5 6918	11430	0.279 3263	2 4689	4971
9	12	0.737 1142	5 7349		0.638 3151	5 7368		0.276 8574	2 4884	
10	0	−0.742 8491	5 6817	+11773	+0.632 5783	5 7815	+11611	+0.274 3690	2 5077	+5049
10	12	0.748 5308	5 6284		0.626 7968	5 8257		0.271 8613	2 5270	
11	0	0.754 1592	5 5746	11557	0.620 9711	5 8694	11788	0.269 3343	2 5458	5126
11	12	0.759 7338	5 5204		0.615 1017	5 9129		0.266 7885	2 5646	
12	0	0.765 2542	5 4659	+11338	0.609 1888	5 9558	+11962	0.264 2239	2 5831	+5202
12	12	−0.770 7201			+0.603 2330			+0.261 6408		

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932	h									
Aug. 12	12	−0.770 7201			+0.603 2330			+0.261 6408		
13	0	0.776 1313	5 4112	+11116	0.597 2347	5 9983	+12132	0.259 0392	2 6016	+5276
13	12	0.781 4872	5 3559		0.591 1943	6 0404		0.256 4194	2 6198	
14	0	0.786 7877	5 3005	10890	0.585 1122	6 0821	12299	0.253 7815	2 6379	5349
14	12	0.792 0323	5 2446		0.578 9888	6 1234		0.251 1258	2 6557	
15	0	0.797 2207	5 1884	10662	0.572 8244	6 1644	12462	0.248 4523	2 6735	5420
15	12	−0.802 3525	5 1318		+0.566 6195	6 2049		+0.245 7613	2 6910	
16	0	0.807 4274	5 0749	+10430	0.560 3745	6 2450	+12622	0.243 0529	2 7084	+5489
16	12	0.812 4451	5 0177		0.554 0898	6 2847		0.240 3274	2 7255	
17	0	0.817 4052	4 9601	10196	0.547 7658	6 3240	12778	0.237 5848	2 7426	5557
17	12	0.822 3073	4 9021		0.541 4029	6 3629		0.234 8253	2 7595	
18	0	0.827 1512	4 8439	9959	0.535 0015	6 4014	12931	0.232 0492	2 7761	5623
18	12	−0.831 9364	4 7852		+0.528 5620	6 4395		+0.229 2566	2 7926	
19	0	0.836 6626	4 7262	+ 9719	0.522 0848	6 4772	+13080	0.226 4475	2 8091	+5688
19	12	0.841 3294	4 6668		0.515 5704	6 5144		0.223 6223	2 8252	
20	0	0.845 9366	4 6072	9477	0.509 0191	6 5513	13225	0.220 7812	2 8411	5751
20	12	0.850 4837	4 5471		0.502 4315	6 5876		0.217 9242	2 8570	
21	0	0.854 9704	4 4867	9231	0.495 8078	6 6237	13366	0.215 0516	2 8726	5813
21	12	−0.859 3963	4 4259		+0.489 1486	6 6592		+0.212 1635	2 8881	
22	0	0.863 7610	4 3647	+ 8983	0.482 4542	6 6944	+13504	0.209 2602	2 9033	+5873
22	12	0.868 0642	4 3032		0.475 7251	6 7291		0.206 3418	2 9184	
23	0	0.872 3056	4 2414	8732	0.468 9618	6 7633	13638	0.203 4085	2 9333	5931
23	12	0.876 4848	4 1792		0.462 1648	6 7970		0.200 4605	2 9480	
24	0	0.880 6016	4 1168	8479	0.455 3343	6 8305	13768	0.197 4980	2 9625	5988
24	12	−0.884 6555	4 0539		+0.448 4710	6 8633		+0.194 5213	2 9767	
25	0	0.888 6461	3 9906	+ 8223	0.441 5752	6 8958	+13894	0.191 5304	2 9909	+6043
25	12	0.892 5731	3 9270		0.434 6474	6 9278		0.188 5256	3 0048	
26	0	0.896 4364	3 8633	7965	0.427 6882	6 9592	14016	0.185 5071	3 0185	6096
26	12	0.900 2354	3 7990		0.420 6980	6 9902		0.182 4751	3 0320	
27	0	0.903 9698	3 7344	7705	0.413 6773	7 0207	14134	0.179 4298	3 0453	6147
27	12	−0.907 6393	3 6695		+0.406 6266	7 0507		+0.176 3715	3 0583	
28	0	0.911 2436	3 6043	+ 7442	0.399 5463	7 0803	+14248	0.173 3003	3 0712	+6197
28	12	0.914 7823	3 5387		0.392 4370	7 1093		0.170 2166	3 0837	
29	0	0.918 2551	3 4728	7177	0.385 2992	7 1378	14358	0.167 1204	3 0962	6244
29	12	0.921 6617	3 4066		0.378 1334	7 1658		0.164 0121	3 1083	
30	0	0.925 0020	3 3403	6911	0.370 9400	7 1934	14464	0.160 8918	3 1203	6290
30	12	−0.928 2754	3 2734		+0.363 7197	7 2203		+0.157 7597	3 1321	
31	0	0.931 4816	3 2062	+ 6642	0.356 4729	7 2468	+14566	0.154 6162	3 1435	+6335
31	12	0.934 6205	3 1389		0.349 2003	7 2726		0.151 4615	3 1547	
Sept. 1	0	0.937 6918	3 0713	6371	0.341 9025	7 2978	14663	0.148 2957	3 1658	6377
1	12	0.940 6951	3 0033		0.334 5800	7 3225		0.145 1193	3 1764	
2	0	−0.943 6302	2 9351	+ 6098	+0.327 2332	7 3468	+14756	+0.141 9324	3 1869	+6417

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X	Diff.	Red. auf 1925.0	Y	Diff.	Red. auf 1925.0	Z	Diff.	Red. auf 1925.0
1932	h									
Sept. 2	0	−0.943 6302	2 8666	+ 6098	+0.327 2332	7 3704	+14756	+0.141 9324	3 1971	+6417
2	12	0.946 4968	2 7979		0.319 8628	7 3935		0.138 7353	3 2072	
3	0	0.949 2947	2 7289	5823	0.312 4693	7 4160	14845	0.135 5281	3 2168	6456
3	12	0.952 0236	2 6600		0.305 0533	7 4378		0.132 3113	3 2264	
4	0	0.954 6836	2 5907	5547	0.297 6155	7 4591	14929	0.129 0849	3 2356	6492
4	12	0.957 2743	2 5211		0.290 1564	7 4799		0.125 8493	3 2446	
5	0	−0.959 7954	2 4514	+ 5269	+0.282 6765	7 5000	+15009	+0.122 6047	3 2533	+6527
5	12	0.962 2468	2 3817		0.275 1765	7 5197		0.119 3514	3 2618	
6	0	0.964 6285	2 3117	4990	0.267 6568	7 5387	15085	0.116 0896	3 2699	6560
6	12	0.966 9402	2 2415		0.260 1181	7 5571		0.112 8197	3 2779	
7	0	0.969 1817	2 1712	4709	0.252 5610	7 5750	15156	0.109 5418	3 2856	6591
7	12	0.971 3529	2 1008		0.244 9860	7 5925		0.106 2562	3 2931	
8	0	−0.973 4537	2 0303	+ 4428	+0.237 3935	7 6093	+15223	+0.102 9631	3 3004	+6620
8	12	0.975 4840	1 9596		0.229 7842	7 6255		0.099 6627	3 3074	
9	0	0.977 4436	1 8888	4145	0.222 1587	7 6412	15286	0.096 3553	3 3142	6648
9	12	0.979 3324	1 8180		0.214 5175	7 6565		0.093 0411	3 3207	
10	0	0.981 1504	1 7469	3860	0.206 8610	7 6711	15344	0.089 7204	3 3270	6673
10	12	0.982 8973	1 6758		0.199 1899	7 6852		0.086 3934	3 3331	
11	0	−0.984 5731	1 6046	+ 3575	+0.191 5047	7 6987	+15398	+0.083 0603	3 3390	+6696
11	12	0.986 1777	1 5332		0.183 8060	7 7118		0.079 7213	3 3446	
12	0	0.987 7109	1 4619	3288	0.176 0942	7 7243	15447	0.076 3767	3 3500	6718
12	12	0.989 1728	1 3903		0.168 3699	7 7363		0.073 0267	3 3552	
13	0	0.990 5631	1 3186	3001	0.160 6336	7 7477	15492	0.069 6715	3 3601	6737
13	12	0.991 8817	1 2469		0.152 8859	7 7588		0.066 3114	3 3649	
14	0	−0.993 1286	1 1750	+ 2713	+0.145 1271	7 7692	+15532	+0.062 9465	3 3694	+6755
14	12	0.994 3036	1 1030		0.137 3579	7 7792		0.059 5771	3 3737	
15	0	0.995 4066	1 0310	2424	0.129 5787	7 7886	15568	0.056 2034	3 3778	6770
15	12	0.996 4376	9588		0.121 7901	7 7974		0.052 8256	3 3816	
16	0	0.997 3964	8865	2134	0.113 9927	7 8057	15600	0.049 4440	3 3853	6784
16	12	0.998 2829	8141		0.106 1870	7 8135		0.046 0587	3 3887	
17	0	−0.999 0970	7416	+ 1843	+0.098 3735	7 8207	+15627	+0.042 6700	3 3919	+6796
17	12	0.999 8386	6690		0.090 5528	7 8276		0.039 2781	3 3949	
18	0	1.000 5076	5963	1552	0.082 7252	7 8337	15649	0.035 8832	3 3975	6806
18	12	1.001 1039	5236		0.074 8915	7 8394		0.032 4857	3 4000	
19	0	1.001 6275	4507	1261	0.067 0521	7 8445	15667	0.029 0857	3 4022	6813
19	12	1.002 0782	3777		0.059 2076	7 8492		0.025 6835	3 4043	
20	0	−1.002 4559	3047	+ 969	+0.051 3584	7 8531	+15680	+0.022 2792	3 4060	+6819
20	12	1.002 7606	2315		0.043 5053	7 8565		0.018 8732	3 4076	
21	0	1.002 9921	1583	677	0.035 6488	7 8593	15689	0.015 4656	3 4089	6823
21	12	1.003 1504	850		0.027 7895	7 8618		0.012 0567	3 4099	
22	0	1.003 2354	116	+ 385	0.019 9277	7 8635	+15693	0.008 6468	3 4107	+6825
22	12	−1.003 2470			+0.012 0642			+0.005 2361		

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1932	h									
Sept. 22	12	−1.003 2470	619		+0.012 0642	7 8648		+0.005 2361	3 4114	
23	0	1.003 1851	1353	+ 92	+0.004 1994	7 8654	+15692	+0.001 8247	3 4116	+6825
23	12	1.003 0498	2089		−0.003 6660	7 8655		−0.001 5869	3 4117	
24	0	1.002 8409	2825	− 200	0.011 5315	7 8649	15687	0.004 9986	3 4114	6822
24	12	1.002 5584	3561		0.019 3964	7 8639		0.008 4100	3 4111	
25	0	1.002 2023	4299	493	0.027 2603	7 8621	15677	0.011 8211	3 4103	6818
25	12	−1.001 7724	5037		−0.035 1224	7 8600		−0.015 2314	3 4093	
26	0	1.001 2687	5774	− 785	0.042 9824	7 8571	+15663	0.018 6407	3 4081	+6812
26	12	1.000 6913	6513		0.050 8395	7 8536		0.022 0488	3 4068	
27	0	1.000 0400	7251	1077	0.058 6931	7 8495	15644	0.025 4556	3 4050	6804
27	12	0.999 3149	7990		0.066 5426	7 8450		0.028 8606	3 4031	
28	0	0.998 5159	8729	1369	0.074 3876	7 8396	15620	0.032 2637	3 4007	6793
28	12	−0.997 6430	9467		−0.082 2272	7 8336		−0.035 6644	3 3981	
29	0	0.996 6963	1 0205	−1660	0.090 0608	7 8270	+15592	0.039 0625	3 3953	+6781
29	12	0.995 6758	1 0944		0.097 8878	7 8199		0.042 4578	3 3921	
30	0	0.994 5814	1 1681	1951	0.105 7077	7 8120	15559	0.045 8499	3 3887	6766
30	12	0.993 4133	1 2419		0.113 5197	7 8037		0.049 2386	3 3851	
Okt. 1	0	0.992 1714	1 3155	2241	0.121 3234	7 7945	15522	0.052 6237	3 3811	6750
1	12	−0.990 8559	1 3890		−0.129 1179	7 7849		−0.056 0048	3 3768	
2	0	0.989 4669	1 4625	−2531	0.136 9028	7 7745	+15480	0.059 3816	3 3723	+6732
2	12	0.988 0044	1 5358		0.144 6773	7 7636		0.062 7539	3 3676	
3	0	0.986 4686	1 6090	2819	0.152 4409	7 7520	15433	0.066 1215	3 3625	6712
3	12	0.984 8596	1 6820		0.160 1929	7 7397		0.069 4840	3 3571	
4	0	0.983 1776	1 7549	3107	0.167 9326	7 7270	15382	0.072 8411	3 3516	6689
4	12	−0.981 4227	1 8278		−0.175 6596	7 7137		−0.076 1927	3 3458	
5	0	0.979 5949	1 9004	−3395	0.183 3733	7 6998	+15326	0.079 5385	3 3397	+6665
5	12	0.977 6945	1 9729		0.191 0731	7 6852		0.082 8782	3 3333	
6	0	0.975 7216	2 0451	3681	0.198 7583	7 6700	15266	0.086 2115	3 3266	6639
6	12	0.973 6765	2 1173		0.206 4283	7 6544		0.089 5381	3 3198	
7	0	0.971 5592	2 1892	3966	0.214 0827	7 6381	15201	0.092 8579	3 3127	6611
7	12	−0.969 3700	2 2609		−0.221 7208	7 6214		−0.096 1706	3 3054	
8	0	0.967 1091	2 3325	−4250	0.229 3422	7 6039	+15131	0.099 4760	3 2979	+6581
8	12	0.964 7766	2 4039		0.236 9461	7 5862		0.102 7739	3 2901	
9	0	0.962 3727	2 4751	4532	0.244 5323	7 5677	15057	0.106 0640	3 2820	6548
9	12	0.959 8976	2 5462		0.252 1000	7 5487		0.109 3460	3 2739	
10	0	0.957 3514	2 6170	4813	0.259 6487	7 5291	14979	0.112 6199	3 2654	6514
10	12	−0.954 7344	2 6876		−0.267 1778	7 5092		−0.115 8853	3 2566	
11	0	0.952 0468	2 7581	−5093	0.274 6870	7 4885	+14896	0.119 1419	3 2477	+6478
11	12	0.949 2887	2 8284		0.282 1755	7 4674		0.122 3896	3 2385	
12	0	0.946 4603	2 8986	5371	0.289 6429	7 4458	14809	0.125 6281	3 2292	6440
12	12	0.943 5617	2 9685		0.297 0887	7 4236		0.128 8573	3 2196	
13	0	−0.940 5932		−5648	−0.304 5123		+14718	−0.132 0769		+6400

Sonnenkoordinaten 1932

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1932 Okt. 13	0ʰ	−0.940 5932	3 0382	− 5648	−0.304 5123	7 4009	+14718	−0.132 0769	3 2097	+6400
13	12	0.937 5550	3 1079		0.311 9132	7 3778		0.135 2866	3 1997	
14	0	0.934 4471	3 1771	5923	0.319 2910	7 3539	14622	0.138 4863	3 1894	6359
14	12	0.931 2700	3 2463		0.326 6449	7 3298		0.141 6757	3 1788	
15	0	0.928 0237	3 3153	6196	0.333 9747	7 3050	14522	0.144 8545	3 1681	6315
15	12	0.924 7084	3 3841		0.341 2797	7 2796		0.148 0226	3 1572	
16	0	−0.921 3243	3 4526	− 6467	−0.348 5593	7 2537	+14417	−0.151 1798	3 1460	+6269
16	12	0.917 8717	3 5211		0.355 8130	7 2274		0.154 3258	3 1346	
17	0	0.914 3506	3 5892	6737	0.363 0404	7 2004	14308	0.157 4604	3 1230	6222
17	12	0.910 7614	3 6571		0.370 2408	7 1731		0.160 5834	3 1111	
18	0	0.907 1043	3 7248	7004	0.377 4139	7 1451	14195	0.163 6945	3 0990	6172
18	12	0.903 3795	3 7924		0.384 5590	7 1165		0.166 7935	3 0867	
19	0	−0.899 5871	3 8597	− 7269	−0.391 6755	7 0874	+14077	−0.169 8802	3 0741	+6121
19	12	0.895 7274	3 9267		0.398 7629	7 0579		0.172 9543	3 0614	
20	0	0.891 8007	3 9936	7532	0.405 8208	7 0278	13956	0.176 0157	3 0483	6069
20	12	0.887 8071	4 0603		0.412 8486	6 9972		0.179 0640	3 0351	
21	0	0.883 7468	4 1266	7793	0.419 8458	6 9660	13830	0.182 0991	3 0216	6014
21	12	0.879 6202	4 1927		0.426 8118	6 9344		0.185 1207	3 0078	
22	0	−0.875 4275	4 2586	− 8052	−0.433 7462	6 9020	+13700	−0.188 1285	2 9939	+5958
22	12	0.871 1689	4 3242		0.440 6482	6 8693		0.191 1224	2 9797	
23	0	0.866 8447	4 3897	8308	0.447 5175	6 8359	13566	0.194 1021	2 9653	5899
23	12	0.862 4550	4 4547		0.454 3534	6 8020		0.197 0674	2 9506	
24	0	0.858 0003	4 5195	8562	0.461 1554	6 7676	13427	0.200 0180	2 9357	5839
24	12	0.853 4808	4 5842		0.467 9230	6 7326		0.202 9537	2 9205	
25	0	−0.848 8966	4 6484	− 8813	−0.474 6556	6 6970	+13285	−0.205 8742	2 9050	+5778
25	12	0.844 2482	4 7124		0.481 3526	6 6610		0.208 7792	2 8894	
26	0	0.839 5358	4 7761	9061	0.488 0136	6 6242	13139	0.211 6686	2 8736	5714
26	12	0.834 7597	4 8395		0.494 6378	6 5871		0.214 5422	2 8574	
27	0	0.829 9202	4 9025	9307	0.501 2249	6 5493	12989	0.217 3996	2 8410	5648
27	12	0.825 0177	4 9652		0.507 7742	6 5109		0.220 2406	2 8244	
28	0	−0.820 0525	5 0275	− 9550	−0.514 2851	6 4720	+12834	−0.223 0650	2 8075	+5581
28	12	0.815 0250	5 0896		0.520 7571	6 4327		0.225 8725	2 7903	
29	0	0.809 9354	5 1511	9791	0.527 1898	6 3926	12676	0.228 6628	2 7729	5512
29	12	0.804 7843	5 2124		0.533 5824	6 3521		0.231 4357	2 7553	
30	0	0.799 5719	5 2731	10028	0.539 9345	6 3110	12515	0.234 1910	2 7374	5442
30	12	0.794 2988	5 3335		0.546 2455	6 2694		0.236 9284	2 7194	
31	0	−0.788 9653	5 3934	−10262	−0.552 5149	6 2272	+12349	−0.239 6478	2 7011	+5370
31	12	0.783 5719	5 4530		0.558 7421	6 1846		0.242 3489	2 6825	
Nov. 1	0	0.778 1189	5 5120	10493	0.564 9267	6 1413	12180	0.245 0314	2 6637	5296
1	12	0.772 6069	5 5706		0.571 0680	6 0978		0.247 6951	2 6448	
2	0	0.767 0363	5 6287	−10721	0.577 1658	6 0536	+12007	0.250 3399	2 6256	+5221
2	12	−0.761 4076			−0.583 2194			−0.252 9655		

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X	Δ	Red. auf 1925.0	*Y*	Δ	Red. auf 1925.0	*Z*	Δ	Red. auf 1925.0
1932 Nov. 2	12h	−0.761 4076	5 6866		−0.583 2194	6 0090		−0.252 9655	2 6062	
3	0	0.755 7210	5 7437	−10945	0.589 2284	5 9639	+11830	0.255 5717	2 5866	+5144
3	12	0.749 9773	5 8005		0.595 1923	5 9183		0.258 1583	2 5668	
4	0	0.744 1768	5 8568	11166	0.601 1106	5 8723	11650	0.260 7251	2 5469	5066
4	12	0.738 3200	5 9126		0.606 9829	5 8260		0.263 2720	2 5267	
5	0	0.732 4074	5 9680	11383	0.612 8089	5 7791	11466	0.265 7987	2 5064	4986
5	12	−0.726 4394	6 0228		−0.618 5880	5 7320		−0.268 3051	2 4858	
6	0	0.720 4166	6 0772	−11597	0.624 3200	5 6843	+11279	0.270 7909	2 4651	+4904
6	12	0.714 3394	6 1313		0.630 0043	5 6362		0.273 2560	2 4443	
7	0	0.708 2081	6 1847	11808	0.635 6405	5 5876	11088	0.275 7003	2 4232	4821
7	12	0.702 0234	6 2378		0.641 2281	5 5387		0.278 1235	2 4020	
8	0	0.695 7856	6 2903	12015	0.646 7668	5 4893	10894	0.280 5255	2 3806	4737
8	12	−0.689 4953	6 3426		−0.652 2561	5 4397		−0.282 9061	2 3591	
9	0	0.683 1527	6 3942	−12218	0.657 6958	5 3896	+10696	0.285 2652	2 3374	+4651
9	12	0.676 7585	6 4454		0.663 0854	5 3391		0.287 6026	2 3155	
10	0	0.670 3131	6 4961	12418	0.668 4245	5 2882	10495	0.289 9181	2 2934	4564
10	12	0.663 8170	6 5464		0.673 7127	5 2369		0.292 2115	2 2711	
11	0	0.657 2706	6 5962	12614	0.678 9496	5 1852	10291	0.294 4826	2 2487	4475
11	12	−0.650 6744	6 6455		−0.684 1348	5 1332		−0.296 7313	2 2262	
12	0	0.644 0289	6 6943	−12806	0.689 2680	5 0807	+10084	0.298 9575	2 2035	+4385
12	12	0.637 3346	6 7428		0.694 3487	5 0279		0.301 1610	2 1807	
13	0	0.630 5918	6 7907	12995	0.699 3766	4 9747	9874	0.303 3417	2 1576	4294
13	12	0.623 8011	6 8382		0.704 3513	4 9211		0.305 4993	2 1344	
14	0	0.616 9629	6 8851	13179	0.709 2724	4 8671	9661	0.307 6337	2 1111	4201
14	12	−0.610 0778	6 9316		−0.714 1395	4 8130		−0.309 7448	2 0875	
15	0	0.603 1462	6 9776	−13359	0.718 9525	4 7582	+ 9445	0.311 8323	2 0638	+4107
15	12	0.596 1686	7 0233		0.723 7107	4 7033		0.313 8961	2 0400	
16	0	0.589 1453	7 0683	13535	0.728 4140	4 6477	9226	0.315 9361	2 0159	4012
16	12	0.582 0770	7 1128		0.733 0617	4 5919		0.317 9520	1 9918	
17	0	0.574 9642	7 1568	13707	0.737 6536	4 5357	9005	0.319 9438	1 9674	3915
17	12	−0.567 8074	7 2005		−0.742 1893	4 4792		−0.321 9112	1 9429	
18	0	0.560 6069	7 2435	−13875	0.746 6685	4 4222	+ 8780	0.323 8541	1 9183	+3818
18	12	0.553 3634	7 2860		0.751 0907	4 3651		0.325 7724	1 8935	
19	0	0.546 0774	7 3281	14039	0.755 4558	4 3074	8553	0.327 6659	1 8686	3719
19	12	0.538 7493	7 3698		0.759 7632	4 2494		0.329 5345	1 8434	
20	0	0.531 3795	7 4108	14198	0.764 0126	4 1911	8323	0.331 3779	1 8181	3619
20	12	−0.523 9687	7 4513		−0.768 2037	4 1323		−0.333 1960	1 7926	
21	0	0.516 5174	7 4913	−14353	0.772 3360	4 0732	+ 8091	0.334 9886	1 7670	+3518
21	12	0.509 0261	7 5307		0.776 4092	4 0138		0.336 7556	1 7412	
22	0	0.501 4954	7 5697	14503	0.780 4230	3 9539	7856	0.338 4968	1 7153	3416
22	12	0.493 9257	7 6081		0.784 3769	3 8938		0.340 2121	1 6892	
23	0	−0.486 3176		−14649	−0.788 2707		+ 7619	−0.341 9013		+3313

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	Y		Red. auf 1925.0	Z		Red. auf 1925.0
1932 Nov. 23	0h	−0.486 3176	7 6458	−14649	−0.788 2707	3 8332	+7619	−0.341 9013	1 6630	+3313
23	12	0.478 6718	7 6831		0.792 1039	3 7724		0.343 5643	1 6365	
24	0	0.470 9887	7 7197	14791	0.795 8763	3 7111	7379	0.345 2008	1 6099	3209
24	12	0.463 2690	7 7558		0.799 5874	3 6495		0.346 8107	1 5832	
25	0	0.455 5132	7 7913	14928	0.803 2369	3 5875	7137	0.348 3939	1 5563	3104
25	12	0.447 7219	7 8262		0.806 8244	3 5254		0.349 9502	1 5293	
26	0	−0.439 8957	7 8604	−15060	−0.810 3498	3 4627	+6893	−0.351 4795	1 5021	+2998
26	12	0.432 0353	7 8940		0.813 8125	3 3997		0.352 9816	1 4747	
27	0	0.424 1413	7 9270	15188	0.817 2122	3 3364	6646	0.354 4563	1 4472	2890
27	12	0.416 2143	7 9594		0.820 5486	3 2729		0.355 9035	1 4197	
28	0	0.408 2549	7 9910	15311	0.823 8215	3 2090	6398	0.357 3232	1 3919	2782
28	12	0.400 2639	8 0220		0.827 0305	3 1448		0.358 7151	1 3640	
29	0	−0.392 2419	8 0523	−15429	−0.830 1753	3 0804	+6147	−0.360 0791	1 3360	+2674
29	12	0.384 1896	8 0820		0.833 2557	3 0157		0.361 4151	1 3080	
30	0	0.376 1076	8 1110	15543	0.836 2714	2 9508	5895	0.362 7231	1 2797	2564
30	12	0.367 9966	8 1393		0.839 2222	2 8857		0.364 0028	1 2514	
Dez. 1	0	0.359 8573	8 1669	15652	0.842 1079	2 8202	5641	0.365 2542	1 2230	2453
1	12	0.351 6904	8 1939		0.844 9281	2 7547		0.366 4772	1 1946	
2	0	−0.343 4965	8 2201	−15755	−0.847 6828	2 6888	+5385	−0.367 6718	1 1661	+2342
2	12	0.335 2764	8 2458		0.850 3716	2 6229		0.368 8379	1 1374	
3	0	0.327 0306	8 2707	15854	0.852 9945	2 5567	5128	0.369 9753	1 1086	2230
3	12	0.318 7599	8 2950		0.855 5512	2 4904		0.371 0839	1 0799	
4	0	0.310 4649	8 3186	15949	0.858 0416	2 4239	4869	0.372 1638	1 0510	2117
4	12	0.302 1463	8 3417		0.860 4655	2 3572		0.373 2148	1 0220	
5	0	−0.293 8046	8 3640	−16038	−0.862 8227	2 2903	+4608	−0.374 2368	9930	+2004
5	12	0.285 4406	8 3857		0.865 1130	2 2234		0.375 2298	9641	
6	0	0.277 0549	8 4067	16122	0.867 3364	2 1563	4346	0.376 1939	9349	1890
6	12	0.268 6482	8 4271		0.869 4927	2 0890		0.377 1288	9057	
7	0	0.260 2211	8 4469	16201	0.871 5817	2 0216	4083	0.378 0345	8765	1776
7	12	0.251 7742	8 4661		0.873 6033	1 9540		0.378 9110	8473	
8	0	−0.243 3081	8 4845	−16276	−0.875 5573	1 8863	+3818	−0.379 7583	8179	+1661
8	12	0.234 8236	8 5024		0.877 4436	1 8185		0.380 5762	7885	
9	0	0.226 3212	8 5195	16345	0.879 2621	1 7506	3553	0.381 3647	7590	1545
9	12	0.217 8017	8 5362		0.881 0127	1 6825		0.382 1237	7296	
10	0	0.209 2655	8 5521	16409	0.882 6952	1 6143	3286	0.382 8533	7000	1429
10	12	0.200 7134	8 5675		0.884 3095	1 5460		0.383 5533	6705	
11	0	−0.192 1459	8 5821	−16468	−0.885 8555	1 4776	+3018	−0.384 2238	6408	+1313
11	12	0.183 5638	8 5962		0.887 3331	1 4091		0.384 8646	6112	
12	0	0.174 9676	8 6096	16522	0.888 7422	1 3404	2750	0.385 4758	5814	1196
12	12	0.166 3580	8 6224		0.890 0826	1 2718		0.386 0572	5517	
13	0	0.157 7356	8 6345	−16571	0.891 3544	1 2030	+2480	0.386 6089	5218	+1079
13	12	−0.149 1011			−0.892 5574			−0.387 1307		

Welt-Zeit		Mittleres Äquinoktium 1932.0								
		X		Red. auf 1925.0	*Y*		Red. auf 1925.0	*Z*		Red. auf 1925.0
1932	h									
Dez. 13	12	−0.149 1011	8 6462		−0.892 5574	1 1340		−0.387 1307	4920	
14	0	0.140 4549	8 6571	−16615	0.893 6914	1 0649	+2210	0.387 6227	4621	+ 961
14	12	0.131 7978	8 6673		0.894 7563	9959		0.388 0848	4321	
15	0	0.123 1305	8 6769	16653	0.895 7522	9267	1939	0.388 5169	4021	843
15	12	0.114 4536	8 6860		0.896 6789	8574		0.388 9190	3721	
16	0	0.105 7676	8 6943	16686	0.897 5363	7881	1667	0.389 2911	3420	725
16	12	−0.097 0733	8 7022		−0.898 3244	7186		−0.389 6331	3120	
17	0	0.088 3711	8 7093	−16715	0.899 0430	6490	+1395	0.389 9451	2819	+ 607
17	12	0.079 6618	8 7157		0.899 6920	5794		0.390 2270	2516	
18	0	0.070 9461	8 7214	16738	0.900 2714	5097	1123	0.390 4786	2213	488
18	12	0.062 2247	8 7267		0.900 7811	4399		0.390 6999	1912	
19	0	0.053 4980	8 7312	16755	0.901 2210	3701	850	0.390 8911	1609	370
19	12	−0.044 7668	8 7350		−0.901 5911	3001		−0.391 0520	1305	
20	0	0.036 0318	8 7382	−16768	0.901 8912	2301	+ 577	0.391 1825	1001	+ 251
20	12	0.027 2936	8 7409		0.902 1213	1601		0.391 2826	698	
21	0	0.018 5527	8 7427	16776	0.902 2814	899	303	0.391 3524	393	132
21	12	0.009 8100	8 7439		0.902 3713	198		0.391 3917	88	
22	0	−0.001 0661	8 7444	16778	0.902 3911	505	+ 30	0.391 4005	216	+ 14
22	12	+0.007 6783	8 7443		−0.902 3406	1208		−0.391 3789	522	
23	0	0.016 4226	8 7433	−16775	0.902 2198	1911	− 244	0.391 3267	827	− 105
23	12	0.025 1659	8 7418		0.902 0287	2615		0.391 2440	1133	
24	0	0.033 9077	8 7394	16767	0.901 7672	3319	517	0.391 1307	1438	225
24	12	0.042 6471	8 7364		0.901 4353	4023		0.390 9869	1745	
25	0	0.051 3835	8 7326	16754	0.901 0330	4727	791	0.390 8124	2050	344
25	12	+0.060 1161	8 7282		−0.900 5603	5431		−0.390 6074	2356	
26	0	0.068 8443	8 7230	−16735	0.900 0172	6135	−1064	0.390 3718	2662	− 462
26	12	0.077 5673	8 7170		0.899 4037	6839		0.390 1056	2967	
27	0	0.086 2843	8 7102	16711	0.898 7198	7543	1337	0.389 8089	3273	581
27	12	0.094 9945	8 7029		0.897 9655	8245		0.389 4816	3577	
28	0	0.103 6974	8 6946	16682	0.897 1410	8947	1609	0.389 1239	3882	699
28	12	+0.112 3920	8 6859		−0.896 2463	9647		−0.388 7357	4187	
29	0	0.121 0779	8 6762	−16648	0.895 2816	1 0347	−1881	0.388 3170	4490	− 818
29	12	0.129 7541	8 6659		0.894 2469	1 1046		0.387 8680	4795	
30	0	0.138 4200	8 6547	16608	0.893 1423	1 1745	2152	0.387 3885	5097	936
30	12	0.147 0747	8 6430		0.891 9678	1 2441		0.386 8788	5400	
31	0	0.155 7177	8 6305	16564	0.890 7237	1 3137	2423	0.386 3388	5701	1054
31	12	+0.164 3482	8 6173		−0.889 4100	1 3831		−0.385 7687	6002	
32	0	+0.172 9655		−16514	−0.888 0269		−2693	−0.385 1685		−1171

		h m			h m
Frühlingsäquinoktium	20. März	19 54	Herbstäquinoktium	23. Sept.	6 16
Sommersolstitium	21. Juni	15 23	Wintersolstitium	22. Dez.	1 15

Erdnähe	2. Jan.	4h
Erdferne	3. Juli	20

Sonne 1932

Tag	0ʰ Welt-Zeit			
	Aberration	Parallaxe	Mittlere Länge $L_{\odot}$	Mittlere Anomalie $M_{\odot}$
1932				
Jan. −2	20.″82	8.″95	276.°4930	354.°72
+8	20.82	8.95	286.3495	4.57
18	20.81	8.94	296.2059	14.43
28	20.79	8.94	306.0624	24.29
Febr. 7	20.76	8.92	315.9189	34.14
17	20.72	8.91	325.7754	44.00
27	20.67	8.89	335.6318	53.86
März 8	20.62	8.86	345.4883	63.71
18	20.56	8.84	355.3448	73.57
28	20.50	8.81	5.2013	83.42
April 7	20.44	8.79	15.0577	93.28
17	20.39	8.76	24.9142	103.14
27	20.33	8.74	34.7707	112.99
Mai 7	20.28	8.72	44.6271	122.85
17	20.24	8.70	54.4836	132.70
27	20.20	8.68	64.3401	142.56
Juni 6	20.17	8.67	74.1966	152.42
16	20.15	8.66	84.0530	162.27
26	20.14	8.66	93.9095	172.13
Juli 6	20.13	8.65	103.7660	181.98
16	20.14	8.66	113.6225	191.84
26	20.16	8.66	123.4789	201.70
Aug. 5	20.18	8.68	133.3354	211.55
15	20.21	8.69	143.1919	221.41
25	20.25	8.71	153.0484	231.26
Sept. 4	20.30	8.73	162.9048	241.12
14	20.36	8.75	172.7613	250.98
24	20.41	8.77	182.6178	260.83
Okt. 4	20.47	8.80	192.4742	270.69
14	20.53	8.83	202.3307	280.54
24	20.59	8.85	212.1872	290.40
Nov. 3	20.64	8.87	222.0437	300.26
13	20.69	8.89	231.9001	310.11
23	20.73	8.91	241.7566	319.97
Dez. 3	20.77	8.93	251.6131	329.82
13	20.80	8.94	261.4696	339.68
23	20.81	8.95	271.3260	349.54
33	20.82	8.95	281.1825	359.40

Phasen des Mondes

1932		Welt-Zeit		1932		Welt-Zeit	
		h m				h m	
Jan.	1	1 23.1	Letztes Viertel	Juli	3	22 19.7	Neumond
	7	23 28.7	Neumond		11	3 6.8	Erstes Viertel
	15	20 55.0	Erstes Viertel		17	21 6.4	Vollmond
	23	13 44.1	Vollmond		25	13 41.5	Letztes Viertel
	30	9 32.2	Letztes Viertel	Aug.	2	9 41.8	Neumond
Febr.	6	14 45.1	Neumond		9	7 40.4	Erstes Viertel
	14	18 15.7	Erstes Viertel		16	7 41.6	Vollmond
	22	2 7.4	Vollmond		24	7 21.3	Letztes Viertel
	28	18 3.0	Letztes Viertel		31	19 54.6	Neumond
März	7	7 44.3	Neumond	Sept.	7	12 48.9	Erstes Viertel
	15	12 41.0	Erstes Viertel		14	21 6.1	Vollmond
	22	12 37.4	Vollmond		23	0 46.9	Letztes Viertel
	29	3 43.5	Letztes Viertel		30	5 29.8	Neumond
April	6	1 21.1	Neumond	Okt.	6	20 5.4	Erstes Viertel
	14	3 15.5	Erstes Viertel		14	13 17.7	Vollmond
	20	21 27.1	Vollmond		22	17 13.7	Letztes Viertel
	27	15 14.0	Letztes Viertel		29	14 56.1	Neumond
Mai	5	18 11.5	Neumond	Nov.	5	6 50.4	Erstes Viertel
	13	14 2.2	Erstes Viertel		13	7 28.0	Vollmond
	20	5 8.6	Vollmond		21	7 57.8	Letztes Viertel
	27	4 54.5	Letztes Viertel		28	0 43.2	Neumond
Juni	4	9 16.0	Neumond	Dez.	4	21 44.9	Erstes Viertel
	11	21 39.5	Erstes Viertel		13	2 21.0	Vollmond
	18	12 38.1	Vollmond		20	20 21.9	Letztes Viertel
	25	20 35.9	Letztes Viertel		27	11 22.4	Neumond

Mond in Erdnähe

1932		Welt-Zeit
		h
Jan.	2	10.8
Jan.	27	9.0
Febr.	24	1.5
März	23	9.2
April	20	20.2
Mai	19	6.0
Juni	16	10.2
Juli	13	22.8
Aug.	8	7.7
Sept.	3	18.8
Okt.	1	17.3
Okt.	30	2.3
Nov.	27	14.6
Dez.	26	1.6

Mond in Erdferne

1932		Welt-Zeit
		h
Jan.	15	9.1
Febr.	12	5.7
März	10	21.9
April	7	5.5
Mai	4	7.8
Mai	31	17.3
Juni	28	9.0
Juli	26	2.9
Aug.	22	21.7
Sept.	19	15.9
Okt.	17	6.1
Nov.	13	10.1
Dez.	10	12.2

Mond 1932

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1932	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Jan. 0	11 40 49	49 35	+12 35.0	6 42.3	59 2.2	8.8	16 6.6	2.4	174.574	+0.465
1	12 30 24	50 37	− 4 7.3	6 32.1	59 11.0	4.5	16 9.0	1.3	188.608	−0.770
2	13 21 1	52 50	−10 39.4	6 1.0	59 15.5	0.3	16 10.3	0.1	202.701	−1.963
3	14 13 51	55 59	−16 40.4	5 7.8	59 15.2	6.0	16 10.2	1.6	216.842	−3.039
4	15 9 50	59 22	−21 48.2	3 51.7	59 9.2	12.6	16 8.6	3.5	231.004	−3.928
5	16 9 12	62 0	−25 39.9	2 16.1	58 56.6	19.8	16 5.1	5.4	245.144	−4.575
6	17 11 12	62 51	−27 56.0	0 29.2	58 36.8	26.9	15 59.7	7.3	259.200	−4.940
7	18 14 3	61 21	−28 25.2	1 16.6	58 9.9	32.9	15 52.4	9.0	273.100	−5.007
8	19 15 24	57 58	−27 8.6	2 49.0	57 37.0	37.1	15 43.4	10.1	286.770	−4.784
9	20 13 22	53 41	−24 19.6	4 1.1	56 59.9	38.7	15 33.3	10.5	300.150	−4.300
10	21 7 3	49 29	−20 18.5	4 51.5	56 21.2	37.5	15 22.8	10.2	313.204	−3.597
11	21 56 32	46 1	−15 27.0	5 22.8	55 43.7	33.6	15 12.6	9.2	325.924	−2.729
12	22 42 33	43 33	−10 4.2	5 38.7	55 10.1	27.1	15 3.4	7.4	338.331	−1.748
13	23 26 6	42 12	− 4 25.5	5 42.7	54 43.0	18.9	14 56.0	5.1	350.472	−0.705
14	0 8 18	41 57	+ 1 17.2	5 36.7	54 24.1	9.1	14 50.9	2.5	2.414	+0.355
15	0 50 15	42 48	+ 6 53.9	5 21.9	54 15.0	1.3	14 48.4	0.3	14.239	+1.391
16	1 33 3	44 41	+12 15.8	4 57.1	54 16.3	11.9	14 48.7	3.3	26.037	+2.365
17	2 17 44	47 32	+17 12.9	4 21.0	54 28.2	21.9	14 52.0	6.0	37.900	+3.243
18	3 5 16	51 4	+21 33.9	3 30.8	54 50.1	30.9	14 58.0	8.4	49.918	+3.989
19	3 56 20	54 48	+25 4.7	2 24.3	55 21.0	37.8	15 6.4	10.3	62.169	+4.567
20	4 51 8	58 2	+27 29.0	1 1.4	55 58.8	42.3	15 16.7	11.5	74.720	+4.941
21	5 49 10	59 54	+28 30.4	0 34.1	56 41.1	43.6	15 28.2	11.9	87.611	+5.078
22	6 49 4	59 56	+27 56.3	2 13.8	57 24.7	41.4	15 40.1	11.2	100.859	+4.950
23	7 49 0	58 19	+25 42.5	3 47.5	58 6.1	35.9	15 51.3	9.8	114.445	+4.542
24	8 47 19	55 48	+21 55.0	5 6.2	58 42.0	27.9	16 1.1	7.6	128.324	+3.860
25	9 43 7	53 16	+16 48.8	6 4.0	59 9.9	18.1	16 8.7	5.0	142.427	+2.931
26	10 36 23	51 23	+10 44.8	6 39.1	59 28.0	8.2	16 13.7	2.2	156.674	+1.809
27	11 27 46	50 31	+ 4 5.7	6 51.3	59 36.2	1.1	16 15.9	0.3	170.983	+0.565
28	12 18 17	50 51	− 2 45.6	6 41.5	59 35.1	8.7	16 15.6	2.4	185.288	−0.716
29	13 9 8	52 23	− 9 27.1	6 10.6	59 26.4	14.4	16 13.2	3.9	199.537	−1.950
30	14 1 31	54 50	−15 37.7	5 18.6	59 12.0	18.6	16 9.3	5.1	213.696	−3.057
31	14 56 21	57 45	−20 56.3	4 6.5	58 53.4	21.5	16 4.2	5.8	227.745	−3.970
Febr. 1	15 54 6	60 15	−25 2.8	2 36.8	58 31.9	23.8	15 58.4	6.5	241.667	−4.640
2	16 54 21	61 26	−27 39.6	0 55.5	58 8.1	25.6	15 51.9	7.0	255.449	−5.034
3	17 55 47	60 42	−28 35.1	0 47.4	57 42.5	27.3	15 44.9	7.4	269.072	−5.138
4	18 56 29	58 7	−27 47.7	2 21.6	57 15.2	28.9	15 37.5	7.9	282.512	−4.957
5	19 54 36	54 26	−25 26.1	3 39.2	56 46.3	29.9	15 29.6	8.1	295.744	−4.511
6	20 49 2	50 30	−21 46.9	4 37.2	56 16.4	29.9	15 21.5	8.2	308.746	−3.836
7	21 39 32	47 3	−17 9.7	5 15.9	55 46.5	28.7	15 13.3	7.8	321.502	−2.979
8	22 26 35	44 23	−11 53.8	5 37.8	55 17.8	25.8	15 5.5	7.0	334.012	−1.991
9	23 10 58	42 45	− 6 16.0	5 46.0	54 52.0	21.1	14 58.5	5.8	346.287	−0.926
10	23 53 43		− 0 30.0		54 30.9		14 52.7		358.359	+0.167

Tag	Obere Kulmination in Greenwich							0^h Länge, $+50°$ Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1932	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Jan. 0	11 51 43	128	+ 1 6.6	−17.3	59.1	5 17.0	1.96	—	—	11 25	0.6
1	12 43 4	130	− 5 48.3	−17.1	59.2	6 4.3	1.99	0 14	3.4	11 39	0.6
2	13 35 54	135	−12 27.0	−16.0	59.3	6 53.0	2.08	1 37	3.5	11 54	0.7
3	14 31 32	144	−18 26.6	−13.8	59.2	7 44.6	2.22	3 3	3.6	12 14	1.0
4	15 30 53	153	−23 21.7	−10.6	59.1	8 39.9	2.38	4 31	3.6	12 40	1.3
5	16 33 53	161	−26 47.0	− 6.4	58.8	9 38.7	2.51	5 56	3.4	13 16	1.8
6	17 39 10	164	−28 22.4	− 1.5	58.4	10 39.9	2.56	7 12	2.8	14 6	2.4
7	18 44 14	160	−28 0.5	+ 3.3	57.9	11 40.9	2.50	8 12	2.2	15 12	3.0
8	19 46 28	151	−25 49.8	+ 7.5	57.3	12 39.0	2.33	8 56	1.5	16 29	3.3
9	20 44 13	138	−22 11.0	+10.6	56.6	13 32.7	2.14	9 26	1.1	17 49	3.3
10	21 37 8	127	−17 28.9	+12.7	56.0	14 21.5	1.94	9 47	0.8	19 7	3.2
11	22 25 50	117	−12 6.5	+14.0	55.4	15 6.1	1.79	10 3	0.6	20 21	3.0
12	23 11 25	111	− 6 22.3	+14.6	54.9	15 47.7	1.69	10 16	0.5	21 32	2.9
13	23 55 6	108	− 0 30.4	+14.7	54.5	16 27.3	1.63	10 28	0.5	22 41	2.8
14	0 38 9	108	+ 5 18.3	+14.3	54.3	17 6.3	1.63	10 38	0.5	23 49	2.8
15	1 21 47	111	+10 54.1	+13.6	54.2	17 45.9	1.68	10 50	0.5	—	—
16	2 7 12	117	+16 7.0	+12.4	54.4	18 27.2	1.78	11 3	0.6	0 58	2.9
17	2 55 29	125	+20 45.2	+10.7	54.7	19 11.5	1.92	11 19	0.8	2 9	3.0
18	3 47 32	135	+24 33.7	+ 8.2	55.3	19 59.4	2.09	11 40	1.0	3 22	3.1
19	4 43 46	146	+27 14.5	+ 5.0	55.9	20 51.6	2.25	12 8	1.4	4 36	3.0
20	5 43 43	153	+28 28.6	+ 1.0	56.6	21 47.5	2.39	12 49	2.0	5 46	2.8
21	6 45 57	157	+28 0.5	− 3.4	57.4	22 45.6	2.44	13 45	2.7	6 49	2.3
22	7 48 20	154	+25 44.6	− 7.9	58.1	23 43.9	2.40	14 57	3.2	7 38	1.8
23	—	—	—	—	—	—	—	16 19	3.5	8 14	1.3
24	8 48 55	148	+21 47.4	−11.8	58.7	0 40.3	2.30	17 46	3.6	8 41	1.0
25	9 46 41	141	+16 26.6	−14.8	59.2	1 34.0	2.18	19 13	3.6	9 1	0.8
26	10 41 38	134	+10 5.8	−16.8	59.5	2 24.9	2.07	20 38	3.5	9 17	0.6
27	11 34 35	131	+ 3 10.6	−17.7	59.6	3 13.8	2.01	22 2	3.5	9 32	0.6
28	12 26 46	131	− 3 54.3	−17.6	59.6	4 1.9	2.01	23 26	3.5	9 45	0.6
29	13 19 33	134	−10 45.1	−16.5	59.4	4 50.6	2.06	—	—	10 1	0.7
30	14 14 16	140	−16 58.6	−14.5	59.1	5 41.2	2.17	0 51	3.6	10 18	0.9
31	15 11 54	148	−22 11.9	−11.5	58.8	6 34.8	2.30	2 18	3.6	10 42	1.1
Febr. 1	16 12 46	156	−26 2.3	− 7.6	58.4	7 31.5	2.42	3 43	3.4	11 13	1.6
2	17 16 6	160	−28 11.2	− 3.1	58.0	8 30.8	2.50	5 1	3.0	11 58	2.2
3	18 20 2	159	−28 28.4	+ 1.6	57.5	9 30.6	2.47	6 6	2.3	12 58	2.8
4	19 22 16	152	−26 56.7	+ 5.9	57.0	10 28.7	2.35	6 53	1.7	14 10	3.1
5	20 20 56	141	−23 50.6	+ 9.4	56.5	11 23.3	2.18	7 27	1.2	15 28	3.3
6	21 15 14	130	−19 31.7	+12.0	56.0	12 13.5	2.00	7 51	0.9	16 47	3.2
7	22 5 23	121	−14 22.4	+13.6	55.5	12 59.6	1.85	8 8	0.6	18 3	3.1
8	22 52 12	114	− 8 42.6	+14.6	55.0	13 42.3	1.73	8 22	0.5	19 15	3.0
9	23 36 43	109	− 2 48.9	+14.8	54.6	14 22.8	1.65	8 34	0.5	20 25	2.9
10	0 20 6	108	+ 3 5.8	+14.6	54.3	15 2.1	1.63	8 45	0.5	21 34	2.9

Mond 1932

Tag	0ʰ Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1932	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Febr. 10	23 53 43	42 6	− 0 30.0	5 42.7	54 30.9	14.7	14 52.7	4.0	358.359	+0.167
11	0 35 49	42 28	+ 5 12.7	5 29.3	54 16.2	6.6	14 48.7	1.8	10.275	+1.241
12	1 18 17	43 50	+10 42.0	5 6.1	54 9.6	2.5	14 46.9	0.7	22.096	+2.254
13	2 2 7	46 7	+15 48.1	4 32.6	54 12.1	12.6	14 47.6	3.4	33.894	+3.170
14	2 48 14	49 10	+20 20.7	3 46.8	54 24.7	23.0	14 51.0	6.3	45.749	+3.956
15	3 37 24	52 38	+24 7.5	2 46.9	54 47.7	33.0	14 57.3	9.0	57.748	+4.579
16	4 30 2	55 58	+26 54.4	1 32.1	55 20.7	41.9	15 6.3	11.4	69.973	+5.007
17	5 26 0	58 29	+28 26.5	0 3.4	56 2.6	48.6	15 17.7	13.3	82.502	+5.211
18	6 24 29	59 31	+28 29.9	1 33.8	56 51.2	52.3	15 31.0	14.2	95.399	+5.162
19	7 24 0	58 58	+26 56.1	3 11.2	57 43.5	51.9	15 45.2	14.1	108.702	+4.839
20	8 22 58	57 15	+23 44.9	4 39.7	58 35.4	46.8	15 59.3	12.8	122.422	+4.232
21	9 20 13	55 5	+19 5.2	5 51.1	59 22.2	37.2	16 12.1	10.1	136.530	+3.355
22	10 15 18	53 16	+13 14.1	6 40.2	59 59.4	23.9	16 22.2	6.5	150.962	+2.245
23	11 8 34	52 15	+ 6 33.9	7 4.2	60 23.3	8.6	16 28.7	2.4	165.620	+0.970
24	12 0 49	52 19	− 0 30.3	7 2.5	60 31.9	6.4	16 31.1	1.8	180.389	−0.382
25	12 53 8	53 30	− 7 32.8	6 35.1	60 25.5	19.6	16 29.3	5.3	195.151	−1.709
26	13 46 38	55 35	−14 7.9	5 43.7	60 5.9	29.3	16 24.0	8.0	209.799	−2.914
27	14 42 13	58 6	−19 51.6	4 30.4	59 36.6	35.3	16 16.0	9.6	224.251	−3.917
28	15 40 19	60 17	−24 22.0	2 59.5	59 1.3	38.0	16 6.4	10.4	238.452	−4.661
29	16 40 36	61 18	−27 21.5	1 17.9	58 23.3	38.2	15 56.0	10.4	252.376	−5.114
März 1	17 41 54	60 33	−28 39.4	0 25.1	57 45.1	36.5	15 45.6	9.9	266.014	−5.268
2	18 42 27	58 4	−28 14.3	1 59.9	57 8.6	34.1	15 35.7	9.3	279.374	−5.132
3	19 40 31	54 33	−26 14.4	3 19.5	56 34.5	31.3	15 26.4	8.5	292.471	−4.730
4	20 35 4	50 45	−22 54.9	4 20.9	56 3.2	28.3	15 17.9	7.7	305.325	−4.095
5	21 25 49	47 21	−18 34.0	5 4.4	55 34.9	25.4	15 10.2	6.9	317.956	−3.269
6	22 13 10	44 41	−13 29.6	5 31.5	55 9.5	22.2	15 3.3	6.1	330.382	−2.300
7	22 57 51	42 57	− 7 58.1	5 44.7	54 47.3	18.8	14 57.2	5.1	342.626	−1.238
8	23 40 48	42 9	− 2 13.4	5 45.7	54 28.5	14.5	14 52.1	4.0	354.712	−0.132
9	0 22 57	42 18	+ 3 32.3	5 35.6	54 14.0	9.3	14 48.1	2.5	6.667	+0.969
10	1 5 15	43 21	+ 9 7.9	5 15.0	54 4.7	2.9	14 45.6	0.8	18.526	+2.019
11	1 48 36	45 14	+14 22.9	4 43.7	54 1.8	4.5	14 44.8	1.2	30.332	+2.979
12	2 33 50	47 51	+19 6.6	4 0.8	54 6.3	13.0	14 46.0	3.6	42.137	+3.812
13	3 21 41	50 53	+23 7.4	3 5.2	54 19.3	22.4	14 49.6	6.1	54.002	+4.485
14	4 12 34	53 56	+26 12.6	1 56.3	54 41.7	32.0	14 55.7	8.7	65.992	+4.971
15	5 6 30	56 26	+28 8.9	0 34.8	55 13.7	41.3	15 4.4	11.2	78.182	+5.244
16	6 2 56	57 50	+28 43.7	0 55.6	55 55.0	49.6	15 15.6	13.5	90.647	+5.279
17	7 0 46	57 53	+27 48.1	2 29.4	56 44.6	55.4	15 29.1	15.1	103.455	+5.058
18	7 58 39	56 51	+25 18.7	3 59.2	57 40.0	57.8	15 44.2	15.8	116.667	+4.567
19	8 55 30	55 15	+21 19.5	5 18.2	58 37.8	55.4	16 0.0	15.1	130.319	+3.806
20	9 50 45	53 47	+16 1.3	6 20.2	59 33.2	47.6	16 15.1	13.0	144.418	+2.794
21	10 44 32	52 59	+ 9 41.1	7 0.4	60 20.8	34.4	16 28.1	9.3	158.931	+1.575
22	11 37 31		+ 2 40.7		60 55.2		16 37.4		173.778	+0.224

Tag	Obere Kulmination in Greenwich AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	0ʰ Länge, +50° Breite Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1932	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Febr. 10	0 20 6	108	+ 3 5.8	+14.6	54.3	15 2.1	1.63	8 45	0.5	21 34	2.9
11	1 3 29	109	+ 8 50.1	+14.0	54.2	15 41.5	1.66	8 56	0.5	22 43	2.9
12	1 47 58	113	+14 13.9	+12.9	54.2	16 21.9	1.73	9 8	0.5	23 53	2.9
13	2 34 39	120	+19 6.2	+11.4	54.3	17 4.5	1.84	9 22	0.7	—	—
14	3 24 27	129	+23 14.4	+ 9.2	54.7	17 50.3	1.98	9 40	0.9	1 4	3.0
15	4 18 1	139	+26 23.2	+ 6.4	55.2	18 39.8	2.15	10 5	1.2	2 17	3.0
16	5 15 24	148	+28 15.7	+ 2.9	55.9	19 33.1	2.29	10 39	1.7	3 29	2.9
17	6 15 50	154	+28 35.3	— 1.3	56.7	20 29.4	2.39	11 27	2.3	4 34	2.5
18	7 17 41	155	+27 10.8	— 5.8	57.6	21 27.1	2.41	12 31	3.0	5 29	2.0
19	8 19 6	152	+24 0.5	—10.0	58.5	22 24.5	2.35	13 49	3.4	6 10	1.5
20	9 18 39	146	+19 14.1	—13.7	59.3	23 19.9	2.26	15 15	3.6	6 41	1.1
21	—	—	—	—	—	—	—	16 43	3.7	7 4	0.9
22	10 15 48	140	+13 10.7	—16.4	60.0	0 13.0	2.17	18 11	3.6	7 22	0.7
23	11 10 54	136	+ 6 15.4	—18.0	60.4	1 4.0	2.10	19 38	3.6	7 37	0.6
24	12 4 57	135	— 1 4.2	—18.4	60.5	1 53.9	2.08	21 6	3.7	7 51	0.6
25	12 59 9	137	— 8 19.6	—17.7	60.4	2 44.1	2.11	22 34	3.7	8 6	0.7
26	13 54 48	142	—15 3.2	—15.8	60.0	3 35.6	2.20	—	—	8 23	0.8
27	14 52 54	149	—20 48.4	—12.8	59.5	4 29.7	2.31	0 3	3.7	8 45	1.1
28	15 53 49	156	—25 11.2	— 8.9	58.9	5 26.5	2.42	1 31	3.5	9 14	1.4
29	16 56 59	160	—27 52.6	— 4.4	58.2	6 25.5	2.48	2 53	3.1	9 54	2.0
März 1	18 0 47	158	—28 42.4	+ 0.3	57.6	7 25.2	2.47	4 2	2.5	10 49	2.6
2	19 3 6	152	—27 42.5	+ 4.6	56.9	8 23.4	2.37	4 54	1.8	11 58	3.0
3	20 2 8	142	—25 5.5	+ 8.3	56.4	9 18.4	2.20	5 30	1.3	13 14	3.2
4	20 56 59	132	—21 11.0	+11.1	55.8	10 9.2	2.03	5 56	0.9	14 32	3.2
5	21 47 46	122	—16 19.7	+13.0	55.4	10 55.9	1.87	6 15	0.7	15 48	3.1
6	22 35 8	115	—10 51.1	+14.2	55.0	11 39.2	1.75	6 30	0.6	17 1	3.0
7	23 20 5	110	— 5 1.8	+14.8	54.6	12 20.1	1.67	6 42	0.5	18 12	2.9
8	0 3 39	108	+ 0 54.4	+14.8	54.3	12 59.6	1.64	6 53	0.5	19 21	2.9
9	0 46 55	109	+ 6 45.0	+14.3	54.1	13 38.8	1.64	7 4	0.5	20 30	2.9
10	1 30 55	112	+12 18.9	+13.4	54.0	14 18.7	1.70	7 15	0.5	21 39	2.9
11	2 16 37	117	+17 24.7	+12.0	54.1	15 0.4	1.78	7 28	0.6	22 50	3.0
12	3 4 54	124	+21 50.2	+10.0	54.2	15 44.6	1.91	7 45	0.8	—	—
13	3 56 24	133	+25 21.8	+ 7.5	54.6	16 32.0	2.05	8 6	1.0	0 2	3.0
14	4 51 21	141	+27 44.4	+ 4.3	55.1	17 22.9	2.18	8 35	1.5	1 13	2.9
15	5 49 19	148	+28 43.3	+ 0.5	55.7	18 16.8	2.29	9 16	2.0	2 21	2.6
16	6 49 10	151	+28 6.7	— 3.6	56.6	19 12.5	2.34	10 12	2.6	3 19	2.2
17	7 49 24	150	+25 49.0	— 7.8	57.5	20 8.7	2.32	11 22	3.1	4 5	1.7
18	8 48 37	146	+21 53.3	—11.7	58.5	21 3.8	2.26	12 43	3.5	4 39	1.2
19	9 46 6	141	+16 31.1	—15.0	59.5	21 57.2	2.19	14 9	3.6	5 5	0.9
20	10 41 55	138	+10 1.0	—17.4	60.3	22 48.9	2.13	15 36	3.7	5 24	0.8
21	11 36 46	137	+ 2 46.8	—18.6	60.9	23 39.7	2.11	17 5	3.7	5 41	0.7
22	—	—	—	—	—	—	—	18 33	3.7	5 56	0.6

Mond 1932

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1932	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
März 22	11 37 31	53 8	+ 2 40.7	7 15.1	60 55.2	16.9	16 37.4	4.6	173.778	+0.224
23	12 30 39	54 24	− 4 34.4	7 1.7	61 12.1	2.2	16 42.0	0.6	188.841	−1.161
24	13 25 3	56 38	−11 36.1	6 19.1	61 9.9	20.5	16 41.4	5.6	203.974	−2.471
25	14 21 41	59 22	−17 55.2	5 9.0	60 49.4	35.3	16 35.8	9.6	219.022	−3.601
26	15 21 3	61 47	−23 4.2	3 36.3	60 14.1	45.3	16 26.2	12.3	233.847	−4.471
27	16 22 50	62 56	−26 40.5	1 49.6	59 28.8	50.2	16 13.9	13.7	248.346	−5.034
28	17 25 46	62 9	−28 30.1	0 0.3	58 38.6	50.8	16 0.2	13.8	262.455	−5.274
29	18 27 55	59 26	−28 30.4	1 39.9	57 47.8	48.0	15 46.4	13.1	276.154	−5.205
30	19 27 21	55 33	−26 50.5	3 3.4	56 59.8	43.1	15 33.3	11.8	289.456	−4.855
31	20 22 54	51 25	−23 47.1	4 7.6	56 16.7	37.3	15 21.5	10.1	302.399	−4.265
April 1	21 14 19	47 44	−19 39.5	4 53.4	55 39.4	31.1	15 11.4	8.5	315.031	−3.480
2	22 2 3	44 51	−14 46.1	5 23.3	55 8.3	25.0	15 2.9	6.8	327.408	−2.547
3	22 46 54	42 56	− 9 22.8	5 39.6	54 43.3	19.4	14 56.1	5.3	339.584	−1.513
4	23 29 50	42 2	− 3 43.2	5 44.3	54 23.9	14.1	14 50.8	3.8	351.607	−0.424
5	0 11 52	42 3	+ 2 1.1	5 37.9	54 9.8	9.0	14 47.0	2.5	3.523	+0.672
6	0 53 55	42 59	+ 7 39.0	5 21.1	54 0.8	3.9	14 44.5	1.0	15.369	+1.731
7	1 36 54	44 43	+13 0.1	4 53.0	53 56.9	1.5	14 43.5	0.4	27.182	+2.711
8	2 21 37	47 7	+17 53.1	4 13.0	53 58.4	7.5	14 43.9	2.0	38.994	+3.573
9	3 8 44	49 57	+22 6.1	3 20.3	54 5.9	14.1	14 45.9	3.9	50.842	+4.283
10	3 58 41	52 45	+25 26.4	2 14.7	54 20.0	21.6	14 49.8	5.8	62.765	+4.812
11	4 51 26	55 4	+27 41.1	0 57.7	54 41.6	29.5	14 55.6	8.1	74.809	+5.134
12	5 46 30	56 22	+28 38.8	0 27.8	55 11.1	37.7	15 3.7	10.3	87.025	+5.230
13	6 42 52	56 29	+28 11.0	1 56.3	55 48.8	45.6	15 14.0	12.4	99.472	+5.085
14	7 39 21	55 34	+26 14.7	3 22.5	56 34.4	52.1	15 26.4	14.2	112.210	+4.689
15	8 34 55	54 7	+22 52.2	4 40.4	57 26.5	56.2	15 40.6	15.3	125.301	+4.043
16	9 29 2	52 45	+18 11.8	5 46.2	58 22.7	56.7	15 55.9	15.4	138.796	+3.156
17	10 21 47	52 0	+12 25.6	6 35.5	59 19.4	52.0	16 11.3	14.2	152.727	+2.058
18	11 13 47	52 12	+ 5 50.1	7 4.6	60 11.4	41.9	16 25.5	11.4	167.098	+0.800
19	12 5 59	53 34	− 1 14.5	7 9.0	60 53.3	26.3	16 36.9	7.2	181.866	−0.544
20	12 59 33	56 4	− 8 23.5	6 44.6	61 19.6	7.1	16 44.1	1.9	196.943	−1.876
21	13 55 37	59 22	−15 8.1	5 49.1	61 26.7	13.4	16 46.0	3.6	212.191	−3.087
22	14 54 59	62 41	−20 57.2	4 23.7	61 13.3	31.8	16 42.4	8.7	227.442	−4.076
23	15 57 40	64 52	−25 20.9	2 35.8	60 41.5	45.8	16 33.7	12.5	242.524	−4.769
24	17 2 32	64 49	−27 56.7	0 38.8	59 55.7	54.3	16 21.2	14.8	257.285	−5.127
25	18 7 21	62 22	−28 35.5	1 12.2	59 1.4	57.3	16 6.4	15.6	271.621	−5.151
26	19 9 43	58 11	−27 23.3	2 45.5	58 4.1	55.6	15 50.8	15.1	285.482	−4.869
27	20 7 54	53 27	−24 37.8	3 56.4	57 8.5	50.5	15 35.7	13.8	298.866	−4.327
28	21 1 21	49 6	−20 41.4	4 46.0	56 18.0	43.4	15 21.9	11.8	311.812	−3.579
29	21 50 27	45 40	−15 55.4	5 17.9	55 34.6	35.3	15 10.1	9.6	324.383	−2.676
30	22 36 7	43 18	−10 37.5	5 35.6	54 59.3	26.9	15 0.5	7.4	336.654	−1.671
Mai 1	23 19 25	42 4	− 5 1.9	5 41.9	54 32.4	18.9	14 53.1	5.1	348.704	−0.609
2	0 1 29		+ 0 40.0		54 13.5		14 48.0		0.606	+0.465

Tag	Obere Kulmination in Greenwich							0h Länge, +50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1932	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
März 22	—	—	—	—	—	—	—	18 33	3.7	5 56	0.6
23	12 31 47	139	− 4 43.7	−18.7	61.2	0 30.6	2.15	20 4	3.8	6 10	0.6
24	13 28 15	144	−11 59.4	−17.4	61.2	1 23.0	2.22	21 36	3.8	6 27	0.8
25	14 27 15	151	−18 28.2	−14.8	60.8	2 17.9	2.35	23 8	3.8	6 47	1.0
26	15 29 20	159	−23 39.5	−11.0	60.1	3 15.9	2.48	—	—	7 13	1.3
27	16 34 1	164	−27 8.1	− 6.3	59.3	4 16.5	2.56	0 36	3.4	7 50	1.9
28	17 39 38	163	−28 39.4	− 1.3	58.5	5 18.0	2.55	1 53	2.8	8 42	2.5
29	18 43 51	157	−28 13.3	+ 3.4	57.6	6 18.1	2.44	2 52	2.1	9 48	2.9
30	19 44 33	146	−26 3.1	+ 7.3	56.8	7 14.7	2.27	3 33	1.5	11 3	3.2
31	20 40 44	135	−22 29.7	+10.3	56.1	8 6.8	2.08	4 2	1.0	12 21	3.2
April 1	21 32 26	124	−17 55.1	+12.4	55.5	8 54.4	1.90	4 23	0.8	13 37	3.1
2	22 20 21	116	−12 39.1	+13.8	55.0	9 38.3	1.77	4 38	0.6	14 51	3.0
3	23 5 33	110	− 6 58.0	+14.5	54.6	10 19.4	1.68	4 51	0.5	16 1	2.9
4	23 49 7	108	− 1 5.6	+14.8	54.3	10 58.9	1.63	5 2	0.5	17 10	2.9
5	0 32 11	108	+ 4 46.3	+14.5	54.1	11 38.0	1.63	5 13	0.5	18 18	2.9
6	1 15 46	110	+10 26.3	+13.8	54.0	12 17.5	1.67	5 24	0.5	19 27	2.9
7	2 0 49	115	+15 42.7	+12.5	54.0	12 58.5	1.75	5 36	0.6	20 38	3.0
8	2 48 11	122	+20 23.1	+10.8	54.0	13 41.8	1.86	5 52	0.7	21 50	3.0
9	3 38 30	130	+24 13.9	+ 8.4	54.2	14 28.0	1.99	6 11	0.9	23 1	2.9
10	4 31 59	137	+27 0.6	+ 5.4	54.5	15 17.4	2.12	6 37	1.3	—	—
11	5 28 19	144	+28 29.0	+ 1.9	55.0	16 9.7	2.23	7 13	1.8	0 10	2.7
12	6 26 31	147	+28 28.1	− 2.0	55.6	17 3.8	2.27	8 2	2.4	1 11	2.3
13	7 25 13	146	+26 52.2	− 6.0	56.4	17 58.4	2.27	9 6	2.9	2 1	1.8
14	8 23 9	143	+23 42.4	− 9.8	57.2	18 52.2	2.21	10 20	3.2	2 38	1.4
15	9 19 32	139	+19 6.7	−13.1	58.2	19 44.5	2.15	11 41	3.5	3 6	1.0
16	10 14 21	135	+13 18.2	−15.8	59.2	20 35.3	2.09	13 6	3.5	3 27	0.8
17	11 8 12	134	+ 6 34.4	−17.7	60.1	21 25.0	2.07	14 31	3.6	3 44	0.7
18	12 2 8	136	− 0 43.1	−18.6	60.8	22 14.9	2.10	15 58	3.6	3 59	0.6
19	12 57 31	141	− 8 7.7	−18.3	61.3	23 6.2	2.19	17 26	3.8	4 14	0.6
20	—	—	—	—	—	—	—	18 58	3.9	4 29	0.7
21	13 55 38	150	−15 8.2	−16.5	61.4	0 0.2	2.33	20 33	3.9	4 47	0.9
22	14 57 27	160	−21 9.6	−13.3	61.2	0 57.9	2.48	22 6	3.7	5 11	1.2
23	16 3 0	168	−25 38.1	− 8.9	60.6	1 59.4	2.62	23 32	3.2	5 44	1.7
24	17 10 49	170	−28 8.2	− 3.6	59.8	3 3.1	2.66	—	—	6 31	2.3
25	18 18 16	166	−28 30.6	+ 1.6	58.9	4 6.4	2.58	0 42	2.5	7 33	2.9
26	19 22 30	155	−26 55.1	+ 6.1	57.9	5 6.5	2.41	1 31	1.7	8 48	3.2
27	20 21 46	141	−23 44.2	+ 9.6	56.9	6 1.7	2.19	2 5	1.2	10 7	3.3
28	21 15 48	129	−19 23.8	+12.0	56.1	6 51.7	1.98	2 28	0.9	11 26	3.2
29	22 5 16	119	−14 17.2	+13.5	55.3	7 37.1	1.81	2 46	0.6	12 40	3.0
30	22 51 20	112	− 8 42.6	+14.3	54.8	8 19.1	1.70	2 59	0.5	13 52	2.9
Mai 1	23 35 15	108	− 2 54.1	+14.6	54.4	8 58.9	1.64	3 11	0.5	15 1	2.9
2	0 18 15	107	+ 2 56.7	+14.5	54.1	9 37.9	1.62	3 21	0.4	16 9	2.9

Tag		0h Welt-Zeit									
		Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1932		h m s	m s	° ′ ″	° ′	′ ″	″	′ ″	″	°	°
Mai	2	0 1 29	41 51	+ 0 40.0	5 38.0	54 13.5	11.6	14 48.0	3.2	0.606	+0.465
	3	0 43 20	42 38	+ 6 18.0	5 24.1	54 1.9	4.9	14 44.8	1.3	12.425	+1.508
	4	1 25 58	44 15	+11 42.1	4 59.5	53 57.0	1.0	14 43.5	0.3	24.217	+2.482
	5	2 10 13	46 36	+16 41.6	4 23.0	53 58.0	6.3	14 43.8	1.7	36.026	+3.348
	6	2 56 49	49 26	+21 4.6	3 33.5	54 4.3	11.6	14 45.5	3.1	47.888	+4.071
	7	3 46 15	52 16	+24 38.1	2 30.6	54 15.9	16.6	14 48.6	4.6	59.833	+4.619
	8	4 38 31	54 36	+27 8.7	1 15.6	54 32.5	21.9	14 53.2	5.9	71.884	+4.967
	9	5 33 7	55 55	+28 24.3	0 7.8	54 54.4	27.5	14 59.1	7.5	84.069	+5.093
	10	6 29 2	55 57	+28 16.5	1 34.4	55 21.9	33.4	15 6.6	9.1	96.414	+4.986
	11	7 24 59	54 53	+26 42.1	2 57.9	55 55.3	39.2	15 15.7	10.7	108.954	+4.639
	12	8 19 52	53 11	+23 44.2	4 13.4	56 34.5	44.5	15 26.4	12.1	121.730	+4.057
	13	9 13 3	51 33	+19 30.8	5 17.2	57 19.0	48.4	15 38.5	13.2	134.788	+3.253
	14	10 4 36	50 26	+14 13.6	6 7.4	58 7.4	49.8	15 51.7	13.6	148.175	+2.253
	15	10 55 2	50 19	+ 8 6.2	6 41.2	58 57.2	47.8	16 5.3	13.0	161.931	+1.097
	16	11 45 21	51 23	+ 1 25.0	6 56.0	59 45.0	41.0	16 18.3	11.2	176.078	−0.156
	17	12 36 44	53 44	− 5 31.0	6 47.2	60 26.0	29.5	16 29.5	8.0	190.606	−1.431
	18	13 30 28	57 12	−12 18.2	6 10.4	60 55.5	13.7	16 37.5	3.7	205.463	−2.635
	19	14 27 40	61 15	−18 28.6	5 2.6	61 9.2	4.7	16 41.2	1.2	220.548	−3.672
	20	15 28 55	64 48	−23 31.2	3 25.4	61 4.5	23.1	16 40.0	6.3	235.715	−4.454
	21	16 33 43	66 26	−26 56.6	1 28.7	60 41.4	38.8	16 33.7	10.6	250.793	−4.921
	22	17 40 9	65 17	−28 25.3	0 31.3	60 2.6	50.2	16 23.1	13.7	265.619	−5.047
	23	18 45 26	61 37	−27 54.0	2 18.0	59 12.4	56.0	16 9.4	15.2	280.060	−4.845
	24	19 47 3	56 40	−25 36.0	3 41.3	58 16.4	56.7	15 54.2	15.5	294.035	−4.356
	25	20 43 43	51 41	−21 54.7	4 39.3	57 19.7	53.2	15 38.7	14.5	307.518	−3.636
	26	21 35 24	47 30	−17 15.4	5 16.0	56 26.5	46.6	15 24.2	12.7	320.534	−2.748
	27	22 22 54	44 29	−11 59.4	5 35.7	55 39.9	38.0	15 11.5	10.3	333.139	−1.751
	28	23 7 23	42 39	− 6 23.7	5 42.8	55 1.9	28.7	15 1.2	7.8	345.413	−0.697
	29	23 50 2	42 0	− 0 40.9	5 39.7	54 33.2	19.1	14 53.4	5.2	357.443	+0.367
	30	0 32 2	42 24	+ 4 58.8	5 27.2	54 14.1	10.0	14 48.2	2.8	9.317	+1.400
	31	1 14 26	43 48	+10 26.0	5 4.9	54 4.1	1.7	14 45.4	0.4	21.117	+2.364
Juni	1	1 58 14	46 2	+15 30.9	4 31.7	54 2.4	5.5	14 45.0	1.5	32.914	+3.224
	2	2 44 16	48 51	+20 2.6	3 45.9	54 7.9	11.7	14 46.5	3.1	44.767	+3.947
	3	3 33 7	51 53	+23 48.5	2 46.2	54 19.6	16.7	14 49.6	4.6	56.722	+4.501
	4	4 25 0	54 31	+26 34.7	1 33.4	54 36.3	21.0	14 54.2	5.7	68.809	+4.859
	5	5 19 31	56 8	+28 8.1	0 10.5	54 57.3	24.5	14 59.9	6.7	81.049	+4.999
	6	6 15 39	56 22	+28 18.6	1 16.9	55 21.8	27.6	15 6.6	7.5	93.455	+4.906
	7	7 12 1	55 18	+27 1.7	2 41.7	55 49.4	30.5	15 14.1	8.3	106.035	+4.574
	8	8 7 19	53 23	+24 20.0	3 57.7	56 19.9	33.1	15 22.4	9.1	118.798	+4.010
	9	9 0 42	51 20	+20 22.3	5 1.2	56 53.0	35.6	15 31.5	9.6	131.758	+3.231
	10	9 52 2	49 43	+15 21.1	5 50.2	57 28.6	37.2	15 41.1	10.2	144.936	+2.267
	11	10 41 45	49 0	+ 9 30.9	6 23.8	58 5.8	37.7	15 51.3	10.2	158.359	+1.159
	12	11 30 45		+ 3 7.1		58 43.5		16 1.5		172.055	−0.037

Tag	Obere Kulmination in Greenwich							0h Länge, +50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1932	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Mai 2	0 18 15	107	+ 2 56.7	+14.5	54.1	9 37.9	1.62	3 21	0.4	16 9	2.9
3	1 1 27	109	+ 8 39.2	+14.0	54.0	10 17.1	1.65	3 32	0.5	17 18	2.9
4	1 45 55	114	+14 2.6	+12.9	53.9	10 57.5	1.73	3 45	0.6	18 27	2.9
5	2 32 33	120	+18 54.7	+11.3	54.0	11 40.0	1.83	3 59	0.7	19 39	3.0
6	3 22 3	128	+23 2.1	+ 9.2	54.2	12 25.5	1.96	4 17	0.9	20 51	3.0
7	4 14 44	136	+26 9.7	+ 6.4	54.4	13 14.1	2.09	4 41	1.2	22 1	2.8
8	5 10 21	142	+28 2.9	+ 3.0	54.7	14 5.6	2.20	5 14	1.6	23 4	2.4
9	6 7 58	145	+28 29.6	− 0.8	55.2	14 59.1	2.25	5 59	2.2	23 57	2.0
10	7 6 9	145	+27 23.6	− 4.7	55.7	15 53.2	2.24	6 58	2.7	—	—
11	8 3 30	141	+24 46.1	− 8.4	56.4	16 46.5	2.19	8 8	3.1	0 38	1.5
12	8 59 7	137	+20 44.8	−11.6	57.1	17 38.0	2.10	9 26	3.3	1 8	1.1
13	9 52 49	132	+15 31.8	−14.3	57.9	18 27.6	2.04	10 46	3.4	1 31	0.9
14	10 45 8	130	+ 9 21.9	−16.4	58.8	19 15.9	2.00	12 8	3.4	1 49	0.7
15	11 37 4	130	+ 2 32.4	−17.6	59.6	20 3.7	2.00	13 31	3.5	2 4	0.6
16	12 29 56	135	− 4 36.8	−18.0	60.4	20 52.5	2.08	14 55	3.6	2 18	0.6
17	13 25 15	142	−11 40.8	−17.2	60.9	21 43.8	2.20	16 23	3.8	2 33	0.6
18	14 24 20	153	−18 9.2	−15.0	61.1	22 38.7	2.38	17 55	3.9	2 49	0.8
19	15 27 58	165	−23 27.3	−11.3	61.1	23 38.3	2.58	19 29	3.9	3 10	1.0
20	—	—	—	—	—	—	—	21 1	3.6	3 38	1.4
21	16 35 38	173	−27 0.9	− 6.3	60.7	0 41.8	2.70	22 20	2.9	4 17	2.0
22	17 45 5	173	−28 27.1	− 0.8	60.0	1 47.2	2.71	23 20	2.1	5 14	2.7
23	18 52 59	165	−27 42.8	+ 4.4	59.1	2 50.9	2.58	—	—	6 26	3.2
24	19 56 28	152	−25 5.5	+ 8.5	58.1	3 50.3	2.36	0 2	1.5	7 46	3.4
25	20 54 17	137	−21 3.5	+11.4	57.1	4 44.0	2.12	0 30	1.0	9 8	3.3
26	21 46 41	125	−16 5.0	+13.3	56.3	5 32.4	1.92	0 50	0.7	10 26	3.2
27	22 34 46	116	−10 33.0	+14.3	55.5	6 16.4	1.77	1 5	0.6	11 40	3.0
28	23 19 53	110	− 4 44.6	+14.7	54.9	6 57.5	1.67	1 18	0.5	12 50	2.9
29	0 3 23	108	+ 1 7.7	+14.6	54.4	7 36.9	1.63	1 29	0.5	13 59	2.9
30	0 46 32	108	+ 6 53.4	+14.1	54.2	8 16.0	1.64	1 40	0.5	15 7	2.9
31	1 30 31	112	+12 22.6	+13.2	54.0	8 55.9	1.70	1 52	0.5	16 16	2.9
Juni 1	2 16 24	118	+17 24.6	+11.8	54.1	9 37.8	1.79	2 6	0.6	17 27	3.0
2	3 5 1	126	+21 46.6	+ 9.9	54.2	10 22.3	1.93	2 23	0.8	18 39	3.0
3	3 56 54	134	+25 14.1	+ 7.3	54.4	11 10.1	2.06	2 45	1.1	19 51	2.9
4	4 52 1	141	+27 31.4	+ 4.1	54.8	12 1.2	2.18	3 15	1.5	20 57	2.6
5	5 49 35	146	+28 24.5	+ 0.3	55.2	12 54.6	2.26	3 57	2.0	21 54	2.1
6	6 48 10	146	+27 44.9	− 3.6	55.6	13 49.1	2.26	4 52	2.5	22 38	1.6
7	7 46 7	143	+25 32.1	− 7.4	56.1	14 43.0	2.21	5 59	3.0	23 11	1.2
8	8 42 14	137	+21 53.6	−10.7	56.7	15 35.0	2.12	7 15	3.2	23 36	0.9
9	9 36 1	132	+17 2.3	−13.4	57.3	16 24.7	2.03	8 35	3.3	23 55	0.7
10	10 27 48	128	+11 14.1	−15.5	57.9	17 12.4	1.96	9 55	3.4	—	—
11	11 18 29	126	+ 4 45.6	−16.8	58.6	17 59.0	1.94	11 16	3.4	0 10	0.6
12	12 9 18	128	− 2 5.4	−17.3	59.2	18 45.8	1.98	12 37	3.4	0 24	0.6

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1932	h m s	m s	° '	° '	' "	"	' "	"	°	°
Juni 12	11 30 45	49 27	+ 3 7.1	6 40.4	58 43.5	36.1	16 1.5	9.9	172.055	−0.037
13	12 20 12	51 10	− 3 33.3	6 38.0	59 19.6	31.6	16 11.4	8.6	186.043	−1.257
14	13 11 22	54 12	−10 11.3	6 12.9	59 51.2	23.9	16 20.0	6.5	200.327	−2.422
15	14 5 34	58 12	−16 24.2	5 20.9	60 15.1	12.7	16 26.5	3.5	214.879	−3.452
16	15 3 46	62 22	−21 45.1	4 0.4	60 27.8	1.1	16 30.0	0.3	229.633	−4.265
17	16 6 8	65 29	−25 45.5	2 14.9	60 26.7	15.9	16 29.7	4.4	244.483	−4.796
18	17 11 37	66 10	−28 0.4	0 15.8	60 10.8	30.0	16 25.3	8.1	259.295	−5.004
19	18 17 47	63 59	−28 16.2	1 39.4	59 40.8	41.3	16 17.2	11.3	273.927	−4.880
20	19 21 46	59 42	−26 36.8	3 16.0	58 59.5	48.6	16 5.9	13.2	288.251	−4.450
21	20 21 28	54 38	−23 20.8	4 27.0	58 10.9	51.5	15 52.7	14.1	302.177	−3.761
22	21 16 6	49 59	−18 53.8	5 12.8	57 19.4	50.2	15 38.6	13.6	315.661	−2.880
23	22 6 5	46 19	−13 41.0	5 38.0	56 29.2	45.2	15 25.0	12.3	328.705	−1.871
24	22 52 24	43 52	− 8 3.0	5 47.7	55 44.0	37.7	15 12.7	10.3	341.349	−0.797
25	23 36 16	42 36	− 2 15.3	5 45.4	55 6.3	28.5	15 2.4	7.8	353.659	+0.288
26	0 18 52	42 31	+ 3 30.1	5 33.4	54 37.8	18.6	14 54.6	5.1	5.719	+1.339
27	1 1 23	43 29	+ 9 3.5	5 12.2	54 19.2	8.5	14 49.5	2.3	17.618	+2.317
28	1 44 52	45 23	+14 15.7	4 41.1	54 10.7	1.2	14 47.2	0.4	29.444	+3.189
29	2 30 15	48 3	+18 56.8	3 58.6	54 11.9	9.9	14 47.6	2.6	41.279	+3.923
30	3 18 18	51 8	+22 55.4	3 2.9	54 21.8	17.3	14 50.2	4.8	53.196	+4.491
Juli 1	4 9 26	54 4	+25 58.3	1 53.5	54 39.1	23.2	14 55.0	6.3	65.254	+4.866
2	5 3 30	56 14	+27 51.8	0 32.2	55 2.3	27.3	15 1.3	7.4	77.494	+5.025
3	5 59 44	57 3	+28 24.0	0 56.3	55 29.6	29.9	15 8.7	8.2	89.942	+4.949
4	6 56 47	56 22	+27 27.7	2 24.6	55 59.5	31.0	15 16.9	8.4	102.609	+4.630
5	7 53 9	54 34	+25 3.1	3 45.2	56 30.5	30.7	15 25.3	8.4	115.492	+4.072
6	8 47 43	52 20	+21 17.9	4 52.7	57 1.2	29.7	15 33.7	8.1	128.580	+3.290
7	9 40 3	50 19	+16 25.2	5 44.3	57 30.9	28.0	15 41.8	7.6	141.860	+2.318
8	10 30 22	49 2	+10 40.9	6 18.6	57 58.9	26.0	15 49.4	7.1	155.322	+1.202
9	11 19 24	48 50	+ 4 22.3	6 35.5	58 24.9	23.6	15 56.5	6.4	168.959	+0.001
10	12 8 14	49 51	− 2 13.2	6 33.9	58 48.5	20.5	16 2.9	5.6	182.771	−1.217
11	12 58 5	52 7	− 8 47.1	6 12.2	59 9.0	16.5	16 8.5	4.5	196.758	−2.379
12	13 50 12	55 31	−14 59.3	5 28.0	59 25.5	10.9	16 13.0	3.0	210.913	−3.409
13	14 45 43	59 27	−20 27.3	4 18.8	59 36.4	3.7	16 16.0	1.0	225.215	−4.237
14	15 45 10	62 58	−24 46.1	2 45.7	59 40.1	5.0	16 17.0	1.4	239.621	−4.804
15	16 48 8	64 51	−27 31.8	0 55.3	59 35.1	14.7	16 15.6	4.0	254.063	−5.068
16	17 52 59	64 11	−28 27.1	0 59.2	59 20.4	24.4	16 11.6	6.6	268.453	−5.011
17	18 57 10	61 7	−27 27.9	2 42.9	58 56.0	33.1	16 5.0	9.1	282.695	−4.643
18	19 58 17	56 40	−24 45.0	4 5.1	58 22.9	39.4	15 55.9	10.7	296.695	−4.000
19	20 54 57	52 5	−20 39.9	5 2.3	57 43.5	42.8	15 45.2	11.6	310.380	−3.138
20	21 47 2	48 8	−15 37.6	5 36.6	57 0.7	42.8	15 33.6	11.7	323.707	−2.122
21	22 35 10	45 15	−10 1.0	5 52.2	56 17.9	39.8	15 21.9	10.9	336.666	−1.020
22	23 20 25	43 30	− 4 8.8	5 53.1	55 38.1	33.9	15 11.0	9.2	349.279	+0.107
23	0 3 55		+ 1 44.3		55 4.2		15 1.8		1.592	+1.204

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, +50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1932	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juni 12	12 9 18	128	− 2 5.4	−17.3	59.2	18 45.8	1.98	12 37	3.4	0 24	0.6
13	13 1 44	134	− 8 59.0	−17.0	59.8	19 34.2	2.07	14 0	3.5	0 38	0.6
14	13 57 16	144	−15 31.3	−15.5	60.2	20 25.6	2.23	15 26	3.7	0 53	0.7
15	14 57 8	156	−21 13.2	−12.8	60.5	21 21.4	2.43	16 57	3.8	1 11	0.9
16	16 1 46	167	−25 32.3	− 8.6	60.5	22 21.9	2.61	18 28	3.7	1 34	1.2
17	17 10 3	173	−27 58.5	− 3.4	60.2	23 26.1	2.71	19 54	3.2	2 7	1.7
18	—	—	—	—	—	—	—	21 4	2.5	2 55	2.4
19	18 19 11	171	−28 15.2	+ 2.0	59.7	0 31.1	2.67	21 54	1.8	4 2	3.0
20	19 25 47	161	−26 26.7	+ 6.9	58.9	1 33.6	2.51	22 29	1.2	5 20	3.4
21	20 27 26	147	−22 55.6	+10.5	58.1	2 31.1	2.28	22 52	0.9	6 43	3.4
22	21 23 25	133	−18 12.0	+12.9	57.2	3 23.0	2.05	23 10	0.7	8 5	3.3
23	22 14 21	122	−12 43.7	+14.3	56.3	4 9.9	1.87	23 24	0.5	9 22	3.1
24	23 1 29	114	− 6 52.6	+14.9	55.6	4 52.9	1.74	23 36	0.5	10 36	3.0
25	23 46 12	110	− 0 54.7	+14.9	55.0	5 33.6	1.66	23 47	0.5	11 46	2.9
26	0 29 51	109	+ 4 58.0	+14.4	54.5	6 13.2	1.64	23 59	0.5	12 55	2.9
27	1 13 43	111	+10 35.6	+13.6	54.3	6 53.0	1.68	—	—	14 4	2.9
28	1 58 56	116	+15 48.2	+12.4	54.2	7 34.2	1.76	0 11	0.6	15 14	3.0
29	2 46 32	123	+20 24.7	+10.6	54.2	8 17.7	1.88	0 27	0.8	16 26	3.0
30	3 37 16	131	+24 11.9	+ 8.2	54.5	9 4.4	2.02	0 47	1.0	17 38	2.9
Juli 1	4 31 26	140	+26 54.4	+ 5.2	54.8	9 54.5	2.15	1 14	1.4	18 46	2.7
2	5 28 36	146	+28 16.9	+ 1.6	55.2	10 47.6	2.26	1 52	1.9	19 47	2.3
3	6 27 33	148	+28 7.7	− 2.4	55.7	11 42.4	2.30	2 43	2.4	20 36	1.8
4	7 26 36	146	+26 22.3	− 6.4	56.3	12 37.4	2.27	3 48	2.9	21 13	1.3
5	8 24 8	141	+23 5.5	−10.0	56.8	13 30.8	2.18	5 3	3.2	21 40	1.0
6	9 19 19	135	+18 29.9	−12.9	57.3	14 21.9	2.08	6 23	3.4	22 1	0.8
7	10 12 4	129	+12 52.4	−15.1	57.8	15 10.6	1.99	7 44	3.4	22 17	0.6
8	11 3 3	126	+ 6 31.9	−16.5	58.3	15 57.5	1.93	9 5	3.4	22 32	0.6
9	11 53 24	126	− 0 12.7	−17.1	58.7	16 43.8	1.94	10 26	3.4	22 45	0.6
10	12 44 26	130	− 7 1.9	−16.9	59.1	17 30.7	1.99	11 47	3.4	22 59	0.6
11	13 37 37	137	−13 34.5	−15.7	59.4	18 19.9	2.12	13 10	3.5	23 15	0.8
12	14 34 19	147	−19 26.5	−13.4	59.6	19 12.5	2.28	14 37	3.7	23 36	1.0
13	15 35 23	158	−24 10.3	−10.0	59.7	20 9.4	2.46	16 6	3.6	—	—
14	16 40 35	167	−27 17.8	− 5.5	59.6	21 10.5	2.61	17 32	3.4	0 4	1.4
15	17 48 12	170	−28 27.0	− 0.3	59.4	22 14.0	2.65	18 47	2.8	0 44	2.0
16	18 55 17	165	−27 31.3	+ 4.8	58.9	23 17.0	2.56	19 45	2.1	1 40	2.7
17	—	—	—	—	—	—	—	20 26	1.4	2 53	3.2
18	19 58 57	153	−24 42.6	+ 9.1	58.4	0 16.5	2.38	20 54	1.0	4 16	3.5
19	20 57 38	140	−20 26.1	+12.1	57.7	1 11.1	2.17	21 14	0.7	5 39	3.4
20	21 51 12	128	−15 10.4	+14.0	57.0	2 0.6	1.97	21 29	0.6	7 0	3.3
21	22 40 30	119	− 9 20.9	+15.0	56.2	2 45.9	1.82	21 42	0.5	8 16	3.1
22	23 26 47	113	− 3 17.6	+15.2	55.5	3 28.1	1.72	21 53	0.5	9 29	3.0
23	0 11 21	110	+ 2 44.5	+14.9	55.0	4 8.6	1.67	22 5	0.5	10 39	2.9

Tag		Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
		0h Welt-Zeit									
1932		h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Juli	23	0 3 55	42 55	+ 1 44.3	5 42.7	55 4.2	26.0	15 1.8	7.1	1.592	+1.204
	24	0 46 50	43 22	+ 7 27.0	5 22.4	54 38.2	16.6	14 54.7	4.5	13.672	+2.228
	25	1 30 12	44 50	+12 49.4	4 52.7	54 21.6	6.5	14 50.2	1.8	25.597	+3.141
	26	2 15 2	47 8	+17 42.1	4 12.6	54 15.1	3.9	14 48.4	1.1	37.452	+3.915
	27	3 2 10	50 0	+21 54.7	3 20.6	54 19.0	13.7	14 49.5	3.7	49.321	+4.521
	28	3 52 10	53 2	+25 15.3	2 15.6	54 32.7	22.6	14 53.2	6.2	61.284	+4.935
	29	4 45 12	55 35	+27 30.9	0 58.1	54 55.3	29.9	14 59.4	8.1	73.412	+5.136
	30	5 40 47	57 4	+28 29.0	0 28.8	55 25.2	35.1	15 7.5	9.6	85.762	+5.104
	31	6 37 51	57 6	+28 0.2	1 59.3	56 0.3	37.8	15 17.1	10.3	98.375	+4.827
Aug.	1	7 34 57	55 52	+26 0.9	3 25.6	56 38.1	37.9	15 27.4	10.3	111.272	+4.301
	2	8 30 49	53 51	+22 35.3	4 40.7	57 16.0	35.4	15 37.7	9.6	124.454	+3.536
	3	9 24 40	51 47	+17 54.6	5 39.9	57 51.4	30.7	15 47.3	8.4	137.900	+2.561
	4	10 16 27	50 14	+12 14.7	6 20.3	58 22.1	24.6	15 55.7	6.7	151.577	+1.421
	5	11 6 41	49 35	+ 5 54.4	6 41.2	58 46.7	17.8	16 2.4	4.9	165.443	+0.179
	6	11 56 16	50 3	— 0 46.8	6 41.6	59 4.5	10.9	16 7.3	2.9	179.453	—1.087
	7	12 46 19	51 43	— 7 28.4	6 20.9	59 15.4	4.7	16 10.2	1.3	193.565	—2.299
	8	13 38 2	54 26	—13 49.3	5 38.4	59 20.1	1.0	16 11.5	0.2	207.739	—3.375
	9	14 32 28	57 49	—19 27.7	4 33.2	59 19.1	5.9	16 11.3	1.7	221.942	—4.247
	10	15 30 17	61 4	—24 0.9	3 6.3	59 13.2	10.7	16 9.6	2.9	236.141	—4.858
	11	16 31 21	63 9	—27 7.2	1 22.9	59 2.5	15.3	16 6.7	4.1	250.299	—5.173
	12	17 34 30	63 10	—28 30.1	0 27.2	58 47.2	20.1	16 2.6	5.5	264.379	—5.175
	13	18 37 40	60 58	—28 2.9	2 11.1	58 27.1	24.8	15 57.1	6.8	278.333	—4.871
	14	19 38 38	57 15	—25 51.8	3 38.6	58 2.3	29.0	15 50.3	7.9	292.116	—4.287
	15	20 35 53	53 2	—22 13.2	4 44.0	57 33.3	32.5	15 42.4	8.8	305.682	—3.469
	16	21 28 55	49 12	—17 29.2	5 27.2	57 0.8	34.3	15 33.6	9.4	318.996	—2.474
	17	22 18 7	46 11	—12 2.0	5 50.5	56 26.5	34.4	15 24.2	9.3	332.033	—1.368
	18	23 4 18	44 14	— 6 11.5	5 57.5	55 52.1	32.1	15 14.9	8.8	344.789	—0.215
	19	23 48 32	43 18	— 0 14.0	5 51.1	55 20.0	27.8	15 6.1	7.6	357.275	+0.927
	20	0 31 50	43 24	+ 5 37.1	5 33.5	54 52.2	21.5	14 58.5	5.8	9.523	+2.006
	21	1 15 14	44 27	+11 10.6	5 5.5	54 30.7	13.4	14 52.7	3.7	21.579	+2.978
	22	1 59 41	46 20	+16 16.1	4 27.5	54 17.3	4.0	14 49.0	1.1	33.503	+3.811
	23	2 46 1	48 50	+20 43.6	3 38.4	54 13.3	6.1	14 47.9	1.7	45.365	+4.475
	24	3 34 51	51 39	+24 22.0	2 37.5	54 19.4	16.4	14 49.6	4.5	57.240	+4.950
	25	4 26 30	54 16	+26 59.5	1 25.0	54 35.8	26.3	14 54.1	7.1	69.208	+5.214
	26	5 20 46	56 7	+28 24.5	0 2.2	55 2.1	35.1	15 1.2	9.6	81.345	+5.252
	27	6 16 53	56 47	+28 26.7	1 26.3	55 37.2	42.1	15 10.8	11.5	93.724	+5.049
	28	7 13 40	56 13	+27 0.4	2 54.6	56 19.3	46.3	15 22.3	12.6	106.402	+4.599
	29	8 9 53	54 46	+24 5.8	4 16.0	57 5.6	47.1	15 34.9	12.8	119.422	+3.903
	30	9 4 39	53 1	+19 49.8	5 24.5	57 52.7	44.0	15 47.7	12.0	132.801	+2.977
	31	9 57 40	51 33	+14 25.3	6 15.7	58 36.7	37.3	15 59.7	10.1	146.533	+1.857
Sept.	1	10 49 13	50 50	+ 8 9.6	6 46.8	59 14.0	27.3	16 9.8	7.5	160.578	+0.600
	2	11 40 3		+ 1 22.8		59 41.3		16 17.3		174.874	—0.717

Tag	Obere Kulmination in Greenwich AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1932	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Juli 23	0 11 21	110	+ 2 44.5	+14.9	55.0	4 8.6	1.67	22 5	0.5	10 39	2.9
24	0 55 27	111	+ 8 33.5	+14.1	54.6	4 48.6	1.68	22 17	0.5	11 49	2.9
25	1 40 18	114	+13 59.4	+13.0	54.3	5 29.5	1.73	22 31	0.7	12 59	2.9
26	2 26 58	120	+18 51.7	+11.3	54.3	6 12.0	1.83	22 49	0.9	14 10	3.0
27	3 16 21	128	+22 58.7	+ 9.2	54.4	6 57.4	1.95	23 13	1.2	15 22	3.0
28	4 9 1	136	+26 6.9	+ 6.4	54.7	7 45.9	2.10	23 46	1.6	16 32	2.8
29	5 4 56	143	+28 1.3	+ 3.0	55.1	8 37.8	2.22	—	—	17 37	2.5
30	6 3 21	148	+28 28.3	− 0.8	55.6	9 32.1	2.30	0 32	2.2	18 30	2.0
31	7 2 49	148	+27 19.2	− 4.9	56.3	10 27.5	2.30	1 32	2.8	19 12	1.5
Aug. 1	8 1 38	145	+24 33.7	− 8.8	56.9	11 22.2	2.25	2 44	3.2	19 43	1.1
2	8 58 35	139	+20 20.5	−12.2	57.6	12 15.1	2.15	4 5	3.4	20 6	0.9
3	9 53 9	134	+14 55.4	−14.8	58.1	13 5.6	2.06	5 28	3.4	20 24	0.7
4	10 45 41	129	+ 8 38.1	−16.5	58.6	13 54.0	1.99	6 50	3.4	20 39	0.6
5	11 37 2	128	+ 1 50.0	−17.3	59.0	14 41.3	1.97	8 12	3.4	20 53	0.6
6	12 28 25	130	− 5 7.0	−17.3	59.2	15 28.6	1.99	9 35	3.5	21 6	0.6
7	13 21 10	135	−11 50.5	−16.2	59.3	16 17.3	2.08	10 58	3.5	21 22	0.7
8	14 16 36	143	−17 56.7	−14.1	59.3	17 8.6	2.21	12 24	3.6	21 40	0.9
9	15 15 39	152	−23 0.6	−11.0	59.3	18 3.6	2.37	13 52	3.6	22 5	1.2
10	16 18 31	161	−26 36.7	− 6.9	59.1	19 2.3	2.51	15 18	3.4	22 40	1.8
11	17 24 5	166	−28 24.0	− 2.0	58.8	20 3.8	2.59	16 36	2.9	23 30	2.4
12	18 30 6	163	−28 12.0	+ 3.0	58.5	21 5.7	2.55	17 39	2.2	—	—
13	19 33 54	155	−26 5.7	+ 7.4	58.1	22 5.4	2.41	18 24	1.6	0 36	3.0
14	20 33 37	144	−22 23.6	+10.9	57.6	23 1.0	2.22	18 56	1.1	1 54	3.3
15	21 28 38	132	−17 30.9	+13.3	57.0	23 52.0	2.03	19 18	0.8	3 16	3.4
16	—	—	—	—	—	—	—	19 34	0.6	4 38	3.3
17	22 19 23	122	−11 52.8	+14.7	56.4	0 38.7	1.87	19 48	0.5	5 56	3.2
18	23 6 52	116	− 5 51.2	+15.3	55.8	1 22.0	1.76	20 0	0.5	7 10	3.0
19	23 52 15	112	+ 0 16.5	+15.2	55.3	2 3.4	1.70	20 11	0.5	8 22	3.0
20	0 36 44	111	+ 6 16.1	+14.6	54.8	2 43.8	1.68	20 23	0.5	9 32	2.9
21	1 21 27	113	+11 55.9	+13.6	54.5	3 24.5	1.71	20 36	0.6	10 43	3.0
22	2 7 27	117	+17 4.9	+12.1	54.3	4 6.4	1.79	20 53	0.8	11 54	3.0
23	2 55 39	124	+21 32.0	+10.1	54.2	4 50.6	1.90	21 14	1.0	13 6	3.0
24	3 46 43	132	+25 4.8	+ 7.6	54.4	5 37.5	2.02	21 42	1.4	14 17	2.9
25	4 40 53	139	+27 30.0	+ 4.5	54.7	6 27.6	2.15	22 22	1.9	15 23	2.6
26	5 37 47	145	+28 34.3	+ 0.8	55.2	7 20.5	2.24	23 15	2.5	16 21	2.2
27	6 36 23	147	+28 7.1	− 3.1	55.9	8 15.0	2.28	—	—	17 8	1.7
28	7 35 15	146	+26 3.9	− 7.1	56.6	9 9.7	2.27	0 22	3.0	17 42	1.2
29	8 33 3	142	+22 27.8	−10.8	57.4	10 3.4	2.20	1 39	3.3	18 8	1.0
30	9 28 59	137	+17 29.7	−13.9	58.2	10 55.3	2.12	3 2	3.5	18 28	0.8
31	10 23 4	133	+11 26.5	−16.2	58.9	11 45.3	2.05	4 26	3.5	18 44	0.6
Sept. 1	11 15 52	131	+ 4 39.0	−17.6	59.5	12 34.0	2.02	5 50	3.5	18 59	0.6
2	12 8 25	132	− 2 29.2	−17.9	59.9	13 22.5	2.03	7 15	3.5	19 13	0.6

Mond 1932

Tag		0h Welt-Zeit									
		Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1932		h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	″
Sept.	2	11 40 3	51 6	+ 1 22.8	6 55.5	59 41.3	15.5	16 17.3	4.2	174.874	−0.717
	3	12 31 9	52 29	− 5 32.7	6 40.1	59 56.8	3.3	16 21.5	0.9	189.338	−2.004
	4	13 23 38	54 53	−12 12.8	6 0.2	60 0.1	7.7	16 22.4	2.1	203.879	−3.169
	5	14 18 31	57 56	−18 13.0	4 55.9	59 52.4	16.6	16 20.3	4.5	218.406	−4.128
	6	15 16 27	60 52	−23 8.9	3 29.4	59 35.8	23.1	16 15.8	6.3	232.841	−4.819
	7	16 17 19	62 48	−26 38.3	1 46.7	59 12.7	27.2	16 9.5	7.4	247.121	−5.204
	8	17 20 7	62 49	−28 25.0	0 2.3	58 45.5	29.4	16 2.1	8.0	261.202	−5.271
	9	18 22 56	60 46	−28 22.7	1 46.2	58 16.1	30.3	15 54.1	8.3	275.061	−5.028
	10	19 23 42	57 16	−26 36.5	3 15.1	57 45.8	30.5	15 45.8	8.3	288.683	−4.506
	11	20 20 58	53 14	−23 21.4	4 24.1	57 15.3	30.4	15 37.5	8.3	302.066	−3.745
	12	21 14 12	49 27	−18 57.3	5 12.5	56 44.9	29.8	15 29.2	8.1	315.212	−2.798
	13	22 3 39	46 27	−13 44.8	5 41.8	56 15.1	28.9	15 21.1	7.9	328.128	−1.724
	14	22 50 6	44 26	− 8 3.0	5 55.0	55 46.2	27.4	15 13.2	7.4	340.823	−0.582
	15	23 34 32	43 23	− 2 8.0	5 54.0	55 18.8	24.7	15 5.8	6.8	353.309	+0.570
	16	0 17 55	43 18	+ 3 46.0	5 40.9	54 54.1	21.0	14 59.0	5.7	5.604	+1.678
	17	1 1 13	44 8	+ 9 26.9	5 16.5	54 33.1	15.9	14 53.3	4.3	17.731	+2.693
	18	1 45 21	45 45	+14 43.4	4 41.2	54 17.2	9.3	14 49.0	2.5	29.721	+3.577
	19	2 31 6	47 57	+19 24.6	3 54.8	54 7.9	1.3	14 46.5	0.4	41.617	+4.299
	20	3 19 3	50 29	+23 19.4	2 57.2	54 6.6	7.6	14 46.1	2.1	53.467	+4.833
	21	4 9 32	52 54	+26 16.6	1 48.7	54 14.2	17.4	14 48.2	4.7	65.331	+5.162
	22	5 2 26	54 45	+28 5.3	0 30.6	54 31.6	27.4	14 52.9	7.5	77.278	+5.271
	23	5 57 11	55 38	+28 35.9	0 53.5	54 59.0	37.1	15 0.4	10.1	89.379	+5.149
	24	6 52 49	55 27	+27 42.4	2 19.2	55 36.1	45.7	15 10.5	12.4	101.710	+4.791
	25	7 48 16	54 25	+25 23.2	3 41.0	56 21.8	51.9	15 22.9	14.2	114.343	+4.196
	26	8 42 41	53 2	+21 42.2	4 54.3	57 13.7	54.9	15 37.1	14.9	127.343	+3.372
	27	9 35 43	51 48	+16 47.9	5 54.3	58 8.6	53.5	15 52.0	14.6	140.754	+2.340
	28	10 27 31	51 14	+10 53.6	6 37.6	59 2.1	47.2	16 6.6	12.9	154.595	+1.142
	29	11 18 45	51 34	+ 4 16.0	7 0.1	59 49.3	35.8	16 19.5	9.7	168.849	−0.161
	30	12 10 19	53 2	− 2 44.1	6 58.1	60 25.1	20.8	16 29.2	5.7	183.455	−1.483
Okt.	1	13 3 21	55 32	− 9 42.2	6 28.5	60 45.9	3.8	16 34.9	1.0	198.313	−2.726
	2	13 58 53	58 46	−16 10.7	5 30.1	60 49.7	12.7	16 35.9	3.4	213.291	−3.791
	3	14 57 39	61 58	−21 40.8	4 4.7	60 37.0	26.4	16 32.5	7.2	228.244	−4.595
	4	15 59 37	64 7	−25 45.5	2 19.2	60 10.6	36.4	16 25.3	9.9	243.038	−5.083
	5	17 3 44	64 13	−28 4.7	0 25.2	59 34.2	41.9	16 15.4	11.4	257.564	−5.234
	6	18 7 57	62 3	−28 29.9	1 23.8	58 52.3	43.7	16 4.0	12.0	271.753	−5.059
	7	19 10 0	58 15	−27 6.1	2 56.7	58 8.6	42.7	15 52.0	11.6	285.578	−4.593
	8	20 8 15	53 52	−24 9.4	4 8.5	57 25.9	39.8	15 40.4	10.8	299.044	−3.883
	9	21 2 7	49 48	−20 0.9	4 59.2	56 46.1	35.8	15 29.6	9.8	312.177	−2.984
	10	21 51 55	46 34	−15 1.7	5 31.5	56 10.3	31.7	15 19.8	8.6	325.018	−1.953
	11	22 38 29	44 21	− 9 30.2	5 48.0	55 38.6	27.4	15 11.2	7.5	337.614	−0.847
	12	23 22 50	43 10	− 3 42.2	5 51.3	55 11.2	23.2	15 3.7	6.3	350.006	+0.280
	13	0 6 0		+ 2 9.1		54 48.0		14 57.4		2.233	+1.377

Tag	Obere Kulmination in Greenwich							0^h Länge, +50° Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1932	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Sept. 2	12 8 25	132	− 2 29.2	−17.9	59.9	13 22.5	2.03	7 15	3.5	19 13	0.6
3	13 1 58	136	− 9 32.8	−17.2	60.0	14 12.0	2.10	8 40	3.6	19 28	0.7
4	13 57 45	143	−16 5.1	−15.3	59.9	15 3.7	2.22	10 8	3.7	19 46	0.9
5	14 56 44	152	−21 38.6	−12.3	59.7	15 58.6	2.36	11 37	3.7	20 9	1.1
6	15 59 10	160	−25 46.8	− 8.2	59.3	16 56.9	2.50	13 6	3.5	20 40	1.6
7	17 4 14	164	−28 8.4	− 3.5	58.9	17 57.9	2.56	14 27	3.1	21 25	2.2
8	18 9 55	163	−28 32.1	+ 1.5	58.4	18 59.4	2.54	15 35	2.4	22 26	2.8
9	19 13 45	156	−27 1.0	+ 6.0	57.8	19 59.2	2.42	16 24	1.8	23 40	3.2
10	20 13 51	145	−23 50.7	+ 9.7	57.3	20 55.2	2.24	16 59	1.2	—	—
11	21 9 26	134	−19 24.0	+12.4	56.8	21 46.7	2.05	17 23	0.9	1 0	3.4
12	22 0 47	124	−14 4.5	+14.1	56.3	22 33.9	1.90	17 41	0.7	2 21	3.3
13	22 48 47	117	− 8 13.2	+15.0	55.8	23 17.9	1.78	17 55	0.5	3 39	3.2
14	23 34 31	112	− 2 8.1	+15.3	55.3	23 59.5	1.71	18 7	0.5	4 54	3.1
15	—	—	—	—	—	—	—	18 19	0.5	6 6	3.0
16	0 19 7	111	+ 3 55.7	+15.0	54.9	0 40.1	1.68	18 30	0.5	7 17	2.9
17	1 3 40	112	+ 9 45.4	+14.1	54.5	1 20.6	1.70	18 43	0.6	8 27	2.9
18	1 49 10	116	+15 8.8	+12.8	54.3	2 2.0	1.76	18 58	0.7	9 38	3.0
19	2 36 29	121	+19 54.1	+10.9	54.1	2 45.3	1.85	19 17	0.9	10 50	3.0
20	3 26 17	128	+23 49.3	+ 8.6	54.1	3 31.0	1.96	19 42	1.2	12 1	2.9
21	4 18 54	135	+26 41.6	+ 5.7	54.3	4 19.6	2.08	20 16	1.7	13 10	2.7
22	5 14 7	141	+28 18.8	+ 2.3	54.6	5 10.7	2.18	21 3	2.2	14 11	2.3
23	6 11 12	144	+28 30.5	− 1.4	55.1	6 3.7	2.23	22 3	2.8	15 1	1.9
24	7 8 57	144	+27 10.8	− 5.2	55.8	6 57.4	2.23	23 15	3.1	15 40	1.4
25	8 6 12	142	+24 19.7	− 9.0	56.6	7 50.5	2.19	—	—	16 9	1.1
26	9 2 5	138	+20 3.3	−12.3	57.6	8 42.3	2.13	0 34	3.4	16 31	0.8
27	9 56 26	134	+14 33.4	−15.1	58.5	9 32.6	2.07	1 57	3.5	16 49	0.7
28	10 49 40	132	+ 8 6.1	−17.1	59.4	10 21.7	2.04	3 20	3.5	17 4	0.6
29	11 42 39	133	+ 1 1.7	−18.1	60.1	11 10.7	2.05	4 45	3.6	17 18	0.6
30	12 36 36	137	− 6 15.2	−18.1	60.6	12 0.5	2.12	6 12	3.6	17 33	0.7
Okt. 1	13 32 46	144	−13 16.1	−16.8	60.8	12 52.6	2.23	7 40	3.8	17 50	0.8
2	14 32 15	153	−19 29.4	−14.1	60.7	13 48.0	2.39	9 12	3.9	18 11	1.0
3	15 35 29	162	−24 23.1	−10.2	60.4	14 47.1	2.53	10 45	3.8	18 40	1.5
4	16 41 45	168	−27 30.0	− 5.3	59.8	15 49.3	2.63	12 12	3.4	19 21	2.0
5	17 49 1	167	−28 34.3	− 0.1	59.1	16 52.4	2.61	13 27	2.7	20 18	2.7
6	18 54 32	160	−27 37.0	+ 4.7	58.3	17 53.8	2.48	14 23	2.0	21 29	3.1
7	19 56 8	148	−24 54.1	+ 8.7	57.6	18 51.3	2.30	15 2	1.3	22 49	3.3
8	20 52 51	136	−20 49.4	+11.6	56.9	19 44.0	2.09	15 29	1.0	—	—
9	21 44 57	125	−15 47.3	+13.5	56.3	20 32.0	1.92	15 48	0.7	0 9	3.3
10	22 33 19	117	−10 9.0	+14.6	55.7	21 16.3	1.79	16 3	0.6	1 28	3.2
11	23 19 8	112	− 4 11.9	+15.1	55.2	21 58.0	1.70	16 16	0.5	2 42	3.0
12	0 3 34	110	+ 1 49.4	+15.0	54.8	22 38.4	1.68	16 27	0.5	3 54	3.0
13	0 47 46	111	+ 7 42.1	+14.4	54.5	23 18.6	1.68	16 39	0.5	5 4	2.9

Tag	Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1932	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Okt. 13	0 6 0	43 0	+ 2 9.1	5 42.6	54 48.0	19.2	14 57.4	5.2	2.233	+1.377
14	0 49 0	43 43	+ 7 51.7	5 22.6	54 28.8	14.9	14 52.2	4.1	14.329	+2.398
15	1 32 43	45 14	+13 14.3	4 51.1	54 13.9	10.1	14 48.1	2.7	26.321	+3.301
16	2 17 57	47 19	+18 5.4	4 8.3	54 3.8	4.6	14 45.4	1.3	38.236	+4.053
17	3 5 16	49 44	+22 13.7	3 13.5	53 59.2	1.6	14 44.1	0.4	50.103	+4.625
18	3 55 0	52 3	+25 27.2	2 7.9	54 0.8	9.0	14 44.5	2.5	61.953	+4.996
19	4 47 3	53 47	+27 35.1	0 53.0	54 9.8	17.2	14 47.0	4.7	73.827	+5.153
20	5 40 50	54 38	+28 28.1	0 27.7	54 27.0	26.1	14 51.7	7.1	85.773	+5.088
21	6 35 28	54 26	+28 0.4	1 49.7	54 53.1	35.4	14 58.8	9.6	97.849	+4.798
22	7 29 54	53 24	+26 10.7	3 8.5	55 28.5	44.2	15 8.4	12.0	110.121	+4.285
23	8 23 18	52 2	+23 2.2	4 20.4	56 12.7	51.7	15 20.4	14.2	122.664	+3.558
24	9 15 20	50 49	+18 41.8	5 22.2	57 4.4	57.0	15 34.6	15.5	135.549	+2.634
25	10 6 9	50 11	+13 19.6	6 11.4	58 1.4	58.4	15 50.1	15.9	148.844	+1.541
26	10 56 20	50 29	+ 7 8.2	6 44.6	58 59.8	54.9	16 6.0	14.9	162.596	+0.325
27	11 46 49	51 58	+ 0 23.6	6 57.7	59 54.7	45.6	16 20.9	12.5	176.821	−0.950
28	12 38 47	54 39	− 6 34.1	6 45.6	60 40.3	30.8	16 33.4	8.4	191.489	−2.199
29	13 33 26	58 19	−13 19.7	6 3.5	61 11.1	12.1	16 41.8	3.2	206.514	−3.324
30	14 31 45	62 23	−19 23.2	4 49.0	61 23.2	8.2	16 45.0	2.2	221.756	−4.228
31	15 34 8	65 36	−24 12.2	3 6.2	61 15.0	26.7	16 42.8	7.3	237.039	−4.831
Nov. 1	16 39 44	66 44	−27 18.4	1 6.5	60 48.3	41.3	16 35.5	11.2	252.178	−5.090
2	17 46 28	65 3	−28 24.9	0 53.0	60 7.0	50.5	16 24.3	13.8	267.014	−5.000
3	18 51 31	61 5	−27 31.9	2 36.7	59 16.5	54.3	16 10.5	14.8	281.438	−4.591
4	19 52 36	56 8	−24 55.2	3 56.4	58 22.2	53.6	15 55.7	14.6	295.397	−3.918
5	20 48 44	51 20	−20 58.8	4 51.5	57 28.6	49.5	15 41.1	13.4	308.892	−3.045
6	21 40 4	47 28	−16 7.3	5 25.8	56 39.1	43.4	15 27.7	11.9	321.963	−2.037
7	22 27 32	44 44	−10 41.5	5 43.6	55 55.7	36.4	15 15.8	9.9	334.671	−0.955
8	23 12 16	43 11	− 4 57.9	5 48.2	55 19.3	29.2	15 5.9	7.9	347.089	+0.148
9	23 55 27	42 43	+ 0 50.3	5 41.7	54 50.1	22.3	14 58.0	6.1	359.289	+1.222
10	0 38 10	43 16	+ 6 32.0	5 24.7	54 27.8	15.9	14 51.9	4.3	11.334	+2.225
11	1 21 26	44 40	+11 56.7	4 57.0	54 11.9	10.1	14 47.6	2.8	23.279	+3.119
12	2 6 6	46 45	+16 53.7	4 17.8	54 1.8	4.7	14 44.8	1.3	35.167	+3.870
13	2 52 51	49 12	+21 11.5	3 26.7	53 57.1	0.4	14 43.5	0.1	47.032	+4.450
14	3 42 3	51 36	+24 38.2	2 23.7	53 57.5	5.6	14 43.6	1.6	58.900	+4.835
15	4 33 39	53 28	+27 1.9	1 10.7	54 3.1	11.2	14 45.2	3.0	70.793	+5.011
16	5 27 7	54 22	+28 12.6	0 8.6	54 14.3	17.3	14 48.2	4.7	82.734	+4.968
17	6 21 29	54 6	+28 4.0	1 29.5	54 31.6	24.1	14 52.9	6.6	94.752	+4.704
18	7 15 35	52 56	+26 34.5	2 46.5	54 55.7	31.3	14 59.5	8.5	106.884	+4.227
19	8 8 31	51 16	+23 48.0	3 56.0	55 27.0	38.8	15 8.0	10.6	119.178	+3.547
20	8 59 47	49 41	+19 52.0	4 55.6	56 5.8	45.8	15 18.6	12.5	131.691	+2.686
21	9 49 28	48 39	+14 56.4	5 43.9	56 51.6	51.6	15 31.1	14.0	144.490	+1.671
22	10 38 7	48 33	+ 9 12.5	6 19.4	57 43.2	54.9	15 45.1	15.0	157.643	+0.541
23	11 26 40		+ 2 53.1		58 38.1		16 0.1		171.210	−0.654

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	0ʰ Länge, +50° Breite: Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1932	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Okt. 13	0 47 46	111	+ 7 42.1	+14.4	54.5	23 18.6	1.68	16 39	0.5	5 4	2.9
14	1 32 42	114	+13 14.2	+13.2	54.2	23 59.5	1.73	16 51	0.5	6 14	2.9
15	—	—	—	—	—	—	—	17 5	0.7	7 25	3.0
16	2 19 18	119	+18 13.3	+11.6	54.1	0 42.0	1.82	17 23	0.8	8 36	3.0
17	3 8 12	126	+22 27.0	+ 9.4	54.0	1 26.8	1.92	17 45	1.1	9 48	3.0
18	3 59 46	132	+25 42.1	+ 6.7	54.0	2 14.3	2.03	18 16	1.5	10 58	2.8
19	4 53 51	138	+27 46.2	+ 3.5	54.2	3 4.3	2.13	18 58	2.0	12 1	2.4
20	5 49 46	141	+28 29.2	0.0	54.5	3 56.2	2.18	19 52	2.5	12 55	2.0
21	6 46 26	142	+27 45.0	− 3.7	55.0	4 48.7	2.19	20 58	2.9	13 37	1.5
22	7 42 39	139	+25 33.0	− 7.3	55.6	5 40.9	2.15	22 12	3.2	14 9	1.2
23	8 37 36	135	+21 58.1	−10.6	56.4	6 31.7	2.09	23 31	3.3	14 33	0.9
24	9 31 1	132	+17 9.1	−13.4	57.4	7 21.1	2.03	—	—	14 52	0.7
25	10 23 13	130	+11 18.2	−15.7	58.4	8 9.2	2.00	0 51	3.4	15 8	0.6
26	11 15 4	130	+ 4 40.2	−17.3	59.3	8 57.0	2.00	2 14	3.5	15 22	0.6
27	12 7 42	134	− 2 26.0	−18.0	60.2	9 45.5	2.06	3 37	3.5	15 36	0.6
28	13 2 32	141	− 9 36.6	−17.6	60.9	10 36.3	2.18	5 4	3.7	15 52	0.7
29	14 0 54	151	−16 21.3	−15.8	61.3	11 30.6	2.35	6 36	3.9	16 11	0.9
30	15 3 43	163	−22 4.8	−12.5	61.4	12 29.3	2.54	8 10	3.9	16 37	1.3
31	16 10 51	172	−26 11.3	− 7.8	61.0	13 32.3	2.69	9 44	3.7	17 13	1.8
Nov. 1	17 20 28	175	−28 13.6	− 2.3	60.4	14 37.8	2.73	11 8	3.1	18 5	2.5
2	18 29 24	169	−28 3.0	+ 3.1	59.6	15 42.6	2.64	12 14	2.4	19 14	3.1
3	19 34 36	157	−25 52.2	+ 7.6	58.6	16 43.7	2.44	13 1	1.6	20 34	3.4
4	20 34 23	143	−22 7.6	+10.9	57.7	17 39.4	2.20	13 32	1.1	21 56	3.4
5	21 28 40	130	−17 17.9	+13.1	56.8	18 29.6	1.99	13 54	0.8	23 16	3.3
6	22 18 24	120	−11 47.8	+14.3	56.1	19 15.3	1.83	14 11	0.6	—	—
7	23 4 53	113	− 5 56.4	+14.9	55.4	19 57.7	1.72	14 24	0.5	0 33	3.1
8	23 49 27	110	+ 0 1.6	+14.9	54.9	20 38.2	1.67	14 36	0.5	1 45	3.0
9	0 33 21	110	+ 5 54.2	+14.4	54.5	21 18.0	1.67	14 47	0.5	2 55	2.9
10	1 17 44	112	+11 30.2	+13.5	54.2	21 58.4	1.70	14 59	0.5	4 4	2.9
11	2 3 35	117	+16 38.1	+12.1	54.0	22 40.2	1.79	15 12	0.6	5 14	2.9
12	2 51 39	123	+21 5.7	+10.1	54.0	23 24.2	1.89	15 29	0.8	6 25	3.0
13	—	—	—	—	—	—	—	15 50	1.0	7 36	3.0
14	3 42 26	130	+24 39.6	+ 7.6	54.0	0 10.9	2.00	16 18	1.4	8 47	2.8
15	4 35 51	137	+27 6.4	+ 4.6	54.1	1 0.2	2.10	16 56	1.9	9 52	2.6
16	5 31 19	140	+28 14.9	+ 1.1	54.3	1 51.6	2.17	17 47	2.4	10 50	2.1
17	6 27 40	141	+27 57.8	− 2.5	54.6	2 43.9	2.18	18 49	2.8	11 35	1.7
18	7 23 37	138	+26 14.4	− 6.1	55.0	3 35.7	2.14	19 59	3.0	12 10	1.3
19	8 18 7	134	+23 9.4	− 9.3	55.6	4 26.1	2.06	21 15	3.2	12 36	1.0
20	9 10 46	129	+18 52.1	−12.1	56.3	5 14.7	1.99	22 32	3.2	12 56	0.8
21	10 1 45	126	+13 34.1	−14.3	57.1	6 1.6	1.93	23 51	3.3	13 12	0.6
22	10 51 50	125	+ 7 28.1	−16.1	58.0	6 47.7	1.92	—	—	13 26	0.6
23	11 42 8	127	+ 0 48.5	−17.1	58.9	7 33.9	1.95	1 10	3.4	13 40	0.6

Mond 1932

Tag	0ʰ Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1932	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Nov. 23	11 26 40	49 37	+ 2 53.1	6 39.7	58 38.1	54.4	16 0.1	14.8	171.210	−0.654
24	12 16 17	51 58	− 3 46.6	6 40.7	59 32.5	49.1	16 14.9	13.4	185.233	−1.848
25	13 8 15	55 37	−10 27.3	6 16.8	60 21.6	38.1	16 28.3	10.3	199.715	−2.961
26	14 3 52	60 12	−16 44.1	5 22.5	60 59.7	21.8	16 38.6	6.0	214.608	−3.903
27	15 4 4	64 45	−22 6.6	3 55.4	61 21.5	2.3	16 44.6	0.6	229.800	−4.589
28	16 8 49	67 47	−26 2.0	2 1.0	61 23.8	18.1	16 45.2	4.9	245.130	−4.952
29	17 16 36	67 54	−28 3.0	0 5.5	61 5.7	36.0	16 40.3	9.8	260.401	−4.961
30	18 24 30	64 55	−27 57.5	2 3.8	60 29.7	49.4	16 30.5	13.5	275.427	−4.624
Dez. 1	19 29 25	59 56	−25 53.7	3 38.8	59 40.3	56.8	16 17.0	15.5	290.059	−3.989
2	20 29 21	54 31	−22 14.9	4 45.3	58 43.5	58.7	16 1.5	15.9	304.208	−3.124
3	21 23 52	49 48	−17 29.6	5 25.8	57 44.8	55.8	15 45.6	15.3	317.848	−2.106
4	22 13 40	46 16	−12 3.8	5 46.0	56 49.0	49.8	15 30.3	13.5	331.007	−1.008
5	22 59 56	44 1	− 6 17.8	5 51.2	55 59.2	41.6	15 16.8	11.4	343.744	+0.108
6	23 43 57	43 0	− 0 26.6	5 44.6	55 17.6	32.6	15 5.4	8.8	356.141	+1.189
7	0 26 57	43 8	+ 5 18.0	5 28.3	54 45.0	23.5	14 56.6	6.4	8.283	+2.192
8	1 10 5	44 13	+10 46.3	5 2.3	54 21.5	14.8	14 50.2	4.1	20.254	+3.083
9	1 54 18	46 8	+15 48.6	4 25.9	54 6.7	6.9	14 46.1	1.9	32.128	+3.831
10	2 40 26	48 35	+20 14.5	3 38.2	53 59.8	0.1	14 44.2	0.0	43.969	+4.409
11	3 29 1	51 9	+23 52.7	2 38.3	53 59.7	5.9	14 44.2	1.6	55.823	+4.796
12	4 20 10	53 20	+26 31.0	1 27.4	54 5.6	10.9	14 45.8	3.0	67.728	+4.976
13	5 13 30	54 34	+27 58.4	0 8.5	54 16.5	15.5	14 48.8	4.2	79.709	+4.938
14	6 8 4	54 34	+28 6.9	1 13.2	54 32.0	19.6	14 53.0	5.4	91.783	+4.677
15	7 2 38	53 26	+26 53.7	2 31.8	54 51.6	23.8	14 58.4	6.4	103.966	+4.201
16	7 56 4	51 34	+24 21.9	3 42.3	55 15.4	28.0	15 4.8	7.7	116.274	+3.524
17	8 47 38	49 37	+20 39.6	4 41.8	55 43.4	32.5	15 12.5	8.8	128.732	+2.669
18	9 37 15	48 3	+15 57.8	5 28.6	56 15.9	37.0	15 21.3	10.1	141.372	+1.669
19	10 25 18	47 19	+10 29.2	6 2.6	56 52.9	41.0	15 31.4	11.2	154.236	+0.564
20	11 12 37	47 40	+ 4 26.6	6 22.9	57 33.9	43.8	15 42.6	11.9	167.374	−0.595
21	12 0 17	49 16	− 1 56.3	6 27.3	58 17.7	44.6	15 54.5	12.2	180.835	−1.750
22	12 49 33	52 14	− 8 23.6	6 12.5	59 2.3	42.1	16 6.7	11.4	194.662	−2.834
23	13 41 47	56 25	−14 36.1	5 33.7	59 44.4	35.5	16 18.1	9.7	208.870	−3.774
24	14 38 12	61 14	−20 9.8	4 25.9	60 19.9	24.5	16 27.8	6.7	223.443	−4.495
25	15 39 26	65 35	−24 35.7	2 48.5	60 44.4	9.5	16 34.5	2.6	238.311	−4.929
26	16 45 1	67 52	−27 24.2	0 49.3	60 53.9	7.7	16 37.1	2.1	253.358	−5.031
27	17 52 53	67 0	−28 13.5	1 15.2	60 46.2	25.0	16 35.0	6.8	268.427	−4.784
28	18 59 53	63 19	−26 58.3	3 5.5	60 21.2	39.7	16 28.2	10.8	283.348	−4.213
29	20 3 12	58 10	−23 52.8	4 29.0	59 41.5	50.0	16 17.4	13.7	297.971	−3.372
30	21 1 22	53 2	−19 23.8	5 23.1	58 51.5	55.3	16 3.7	15.0	312.184	−2.340
31	21 54 24	48 49	−14 0.7	5 51.7	57 56.2	55.3	15 48.7	15.1	325.930	−1.200
32	22 43 13		− 8 9.0		57 0.9		15 33.6		339.206	−0.030

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1932	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 23	11 42 8	127	+ 0 48.5	−17.1	58.9	7 33.9	1.95	1 10	3.4	13 40	0.6
24	12 34 3	133	− 6 7.2	−17.4	59.8	8 21.7	2.05	2 33	3.5	13 55	0.7
25	13 29 6	143	−12 56.3	−16.5	60.6	9 12.7	2.21	3 59	3.7	14 12	0.8
26	14 28 42	156	−19 8.8	−14.3	61.2	10 8.2	2.43	5 30	3.9	14 34	1.1
27	15 33 38	169	−24 8.7	−10.5	61.4	11 9.0	2.64	7 5	3.9	15 4	1.5
28	16 43 10	178	−27 19.2	− 5.2	61.3	12 14.4	2.78	8 36	3.5	15 48	2.2
29	17 54 36	178	−28 15.5	+ 0.6	60.8	13 21.7	2.78	9 54	2.8	16 50	2.9
30	19 4 7	169	−26 55.9	+ 5.9	60.0	14 27.1	2.63	10 51	2.0	18 9	3.4
Dez. 1	20 8 39	154	−23 41.8	+10.0	59.1	15 27.6	2.39	11 30	1.4	19 34	3.5
2	21 7 5	139	−19 5.9	+12.8	58.1	16 21.9	2.14	11 56	1.0	20 59	3.4
3	21 59 56	126	−13 39.3	+14.3	57.1	17 10.7	1.94	12 16	0.7	22 18	3.2
4	22 48 28	117	− 7 46.5	+15.0	56.2	17 55.2	1.78	12 30	0.6	23 33	3.1
5	23 34 12	112	− 1 45.3	+15.0	55.4	18 36.8	1.70	12 43	0.5	—	—
6	0 18 32	110	+ 4 11.3	+14.6	54.8	19 17.1	1.67	12 55	0.5	0 45	3.0
7	1 2 45	111	+ 9 52.5	+13.8	54.4	19 57.3	1.69	13 6	0.5	1 55	2.9
8	1 48 1	115	+15 8.3	+12.5	54.1	20 38.5	1.75	13 19	0.6	3 4	2.9
9	2 35 15	121	+19 47.4	+10.7	54.0	21 21.6	1.85	13 35	0.7	4 14	3.0
10	3 25 7	128	+23 37.6	+ 8.4	54.0	22 7.5	1.97	13 54	0.9	5 26	3.0
11	4 17 51	135	+26 25.4	+ 5.5	54.1	22 56.1	2.08	14 20	1.3	6 36	2.9
12	5 13 1	140	+27 58.0	+ 2.1	54.3	23 47.2	2.16	14 55	1.7	7 44	2.7
13	—	—	—	—	—	—	—	15 42	2.2	8 44	2.3
14	6 9 34	142	+28 6.0	− 1.5	54.5	0 39.7	2.20	16 42	2.7	9 34	1.8
15	7 6 6	140	+26 46.3	− 5.1	54.9	1 32.1	2.16	17 51	3.0	10 12	1.4
16	8 1 17	135	+24 2.8	− 8.4	55.3	2 23.2	2.09	19 5	3.1	10 40	1.0
17	8 54 22	130	+20 5.1	−11.3	55.8	3 12.1	2.00	20 22	3.2	11 1	0.8
18	9 45 19	125	+15 6.2	−13.5	56.4	3 59.1	1.92	21 38	3.2	11 18	0.7
19	10 34 40	122	+ 9 19.8	−15.2	57.0	4 44.4	1.87	22 55	3.2	11 33	0.6
20	11 23 26	122	+ 3 0.3	−16.3	57.7	5 29.1	1.87	—	—	11 46	0.6
21	12 12 53	126	− 3 37.2	−16.7	58.5	6 14.5	1.93	0 14	3.3	12 0	0.6
22	13 4 30	133	−10 15.3	−16.3	59.3	7 2.0	2.05	1 35	3.5	12 15	0.7
23	13 59 49	144	−16 31.4	−14.8	60.0	7 53.2	2.23	3 0	3.6	12 33	0.9
24	15 0 9	158	−21 57.1	12.1	60.5	8 49.5	2.45	4 30	3.8	12 58	1.3
25	16 5 55	171	−25 58.2	− 7.8	60.8	9 51.1	2.67	6 1	3.7	13 34	1.8
26	17 15 52	178	−28 2.3	− 2.4	60.9	10 57.0	2.78	7 26	3.2	14 26	2.6
27	18 26 52	176	−27 50.8	+ 3.3	60.6	12 3.8	2.75	8 34	2.4	15 37	3.2
28	19 35 7	165	−25 28.9	+ 8.3	60.0	13 8.0	2.57	9 22	1.7	17 2	3.6
29	20 38 3	150	−21 22.8	+12.0	59.2	14 6.8	2.33	9 55	1.2	18 30	3.6
30	21 35 4	136	−16 6.5	+14.2	58.3	14 59.7	2.09	10 18	0.8	19 54	3.4
31	22 26 55	124	−10 11.1	+15.3	57.3	15 47.5	1.90	10 35	0.6	21 14	3.2
32	23 15 1	117	− 4 0.6	+15.5	56.4	16 31.5	1.78	10 48	0.5	22 29	2.9

Merkur 1932

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	17 18 1.17	0 9.51	−20 3 13.8	4 3.2	9.895 5413	10 8556	10 42.3
1	17 17 51.66	0 28.49	20 7 17.0	5 49.5	9.906 3969	10 8817	10 38.5
2	17 18 20.15	1 3.62	20 13 6.5	7 19.8	9.917 2786	10 7977	10 35.3
3	17 19 23.77	1 35.80	20 20 26.3	8 34.5	9.928 0763	10 6288	10 32.6
4	17 20 59.57	2 5.10	20 29 0.8	9 33.8	9.938 7051	10 3961	10 30.5
5	17 23 4.67	2 31.65	20 38 34.6	10 18.7	9.949 1012	10 1164	10 28.8
6	17 25 36.32	2 55.64	−20 48 53.3	10 50.4	9.959 2176	9 8038	10 27.6
7	17 28 31.96	3 17.28	20 59 43.7	11 9.7	9.969 0214	9 4707	10 26.8
8	17 31 49.24	3 36.80	21 10 53.4	11 17.9	9.978 4921	9 1254	10 26.3
9	17 35 26.04	3 54.38	21 22 11.3	11 16.2	9.987 6175	8 7742	10 26.1
10	17 39 20.42	4 10.22	21 33 27.5	11 5.5	9.996 3917	8 4226	10 26.2
11	17 43 30.64	4 24.51	21 44 33.0	10 46.8	0.004 8143	8 0745	10 26.5
12	17 47 55.15	4 37.41	−21 55 19.8	10 21.1	0.012 8888	7 7330	10 27.1
13	17 52 32.56	4 49.07	22 5 40.9	9 49.1	0.020 6218	7 3996	10 27.8
14	17 57 21.63	4 59.65	22 15 30.0	9 11.4	0.028 0214	7 0759	10 28.8
15	18 2 21.28	5 9.24	22 24 41.4	8 28.8	0.035 0973	6 7625	10 29.9
16	18 7 30.52	5 17.94	22 33 10.2	7 41.9	0.041 8598	6 4600	10 31.2
17	18 12 48.46	5 25.87	22 40 52.1	6 50.9	0.048 3198	6 1687	10 32.6
18	18 18 14.33	5 33.10	−22 47 43.0	5 56.4	0.054 4885	5 8884	10 34.1
19	18 23 47.43	5 39.69	22 53 39.4	4 58.9	0.060 3769	5 6188	10 35.8
20	18 29 27.12	5 45.72	22 58 38.3	3 58.6	0.065 9957	5 3597	10 37.6
21	18 35 12.84	5 51.24	23 2 36.9	2 55.7	0.071 3554	5 1108	10 39.4
22	18 41 4.08	5 56.31	23 5 32.6	1 50.7	0.076 4662	4 8716	10 41.4
23	18 47 0.39	6 0.95	23 7 23.3	0 43.5	0.081 3378	4 6416	10 43.4
24	18 53 1.34	6 5.22	−23 8 6.8	0 25.5	0.085 9794	4 4201	10 45.5
25	18 59 6.56	6 9.13	23 7 41.3	1 36.0	0.090 3995	4 2065	10 47.7
26	19 5 15.69	6 12.73	23 6 5.3	2 48.0	0.094 6060	4 0006	10 50.0
27	19 11 28.42	6 16.06	23 3 17.3	4 1.5	0.098 6066	3 8018	10 52.2
28	19 17 44.48	6 19.11	22 59 15.8	5 16.2	0.102 4084	3 6092	10 54.6
29	19 24 3.59	6 21.91	22 53 59.6	6 32.0	0.106 0176	3 4226	10 57.0
30	19 30 25.50	6 24.50	−22 47 27.6	7 48.7	0.109 4402	3 2414	10 59.4
31	19 36 50.00	6 26.89	22 39 38.9	9 6.5	0.112 6816	3 0651	11 1.9
Febr. 1	19 43 16.89	6 29.07	22 30 32.4	10 25.1	0.115 7467	2 8932	11 4.5
2	19 49 45.96	6 31.09	22 20 7.3	11 44.5	0.118 6399	2 7254	11 7.0
3	19 56 17.05	6 32.94	22 8 22.8	13 4.5	0.121 3653	2 5609	11 9.6
4	20 2 49.99	6 34.66	21 55 18.3	14 25.1	0.123 9262	2 3993	11 12.2
5	20 9 24.65	6 36.24	−21 40 53.2	15 46.4	0.126 3255	2 2402	11 14.9
6	20 16 0.89	6 37.69	21 25 6.8	17 8.1	0.128 5657	2 0832	11 17.6
7	20 22 38.58	6 39.05	21 7 58.7	18 30.4	0.130 6489	1 9277	11 20.3
8	20 29 17.63	6 40.31	20 49 28.3	19 53.1	0.132 5766	1 7732	11 23.0
9	20 35 57.94	6 41.48	20 29 35.2	21 16.1	0.134 3498	1 6190	11 25.7
10	20 42 39.42		−20 8 19.1		0.135 9688		11 28.5

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	20 42 39.42	6 42.57	−20 8 19.1	22 39.5	0.135 9688	1 4648	11 28.5
11	20 49 21.99	6 43.61	19 45 39.6	24 3.1	0.137 4336	1 3100	11 31.3
12	20 56 5.60	6 44.60	19 21 36.5	25 27.3	0.138 7436	1 1539	11 34.1
13	21 2 50.20	6 45.54	18 56 9.2	26 51.4	0.139 8975	9958	11 36.9
14	21 9 35.74	6 46.44	18 29 17.8	28 15.7	0.140 8933	8353	11 39.7
15	21 16 22.18	6 47.31	18 1 2.1	29 40.4	0.141 7286	6714	11 42.6
16	21 23 9.49	6 48.16	−17 31 21.7	31 5.0	0.142 4000	5037	11 45.4
17	21 29 57.65	6 49.01	17 0 16.7	32 29.6	0.142 9037	3312	11 48.3
18	21 36 46.66	6 49.83	16 27 47.1	33 54.1	0.143 2349	1530	11 51.2
19	21 43 36.49	6 50.65	15 53 53.0	35 18.6	0.143 3879	317	11 54.1
20	21 50 27.14	6 51.47	15 18 34.4	36 42.8	0.143 3562	2238	11 57.0
21	21 57 18.61	6 52.27	14 41 51.6	38 6.7	0.143 1324	4246	11 59.9
22	22 4 10.88	6 53.07	−14 3 44.9	39 29.9	0.142 7078	6350	12 2.9
23	22 11 3.95	6 53.86	13 24 15.0	40 52.7	0.142 0728	8560	12 5.8
24	22 17 57.81	6 54.64	12 43 22.3	42 14.5	0.141 2168	1 0893	12 8.8
25	22 24 52.45	6 55.37	12 1 7.8	43 35.1	0.140 1275	1 3362	12 11.8
26	22 31 47.82	6 56.05	11 17 32.7	44 54.3	0.138 7913	1 5976	12 14.8
27	22 38 43.87	6 56.65	10 32 38.4	46 11.8	0.137 1937	1 8751	12 17.8
28	22 45 40.52	6 57.15	− 9 46 26.6	47 26.9	0.135 3186	2 1705	12 20.8
29	22 52 37.67	6 57.52	8 58 59.7	48 39.2	0.133 1481	2 4849	12 23.8
März 1	22 59 35.19	6 57.68	8 10 20.5	49 48.4	0.130 6632	2 8199	12 26.8
2	23 6 32.87	6 57.62	7 20 32.1	50 53.6	0.127 8433	3 1765	12 29.8
3	23 13 30.49	6 57.25	6 29 38.5	51 54.0	0.124 6668	3 5559	12 32.9
4	23 20 27.74	6 56.51	5 37 44.5	52 48.8	0.121 1109	3 9593	12 35.9
5	23 27 24.25	6 55.29	− 4 44 55.7	53 37.0	0.117 1516	4 3868	12 38.9
6	23 34 19.54	6 53.54	3 51 18.7	54 17.5	0.112 7648	4 8391	12 41.8
7	23 41 13.08	6 51.11	2 57 1.2	54 49.4	0.107 9257	5 3157	12 44.8
8	23 48 4.19	6 47.90	2 2 11.8	55 11.2	0.102 6100	5 8151	12 47.7
9	23 54 52.09	6 43.79	1 7 0.6	55 21.8	0.096 7949	6 3359	12 50.5
10	0 1 35.88	6 38.67	− 0 11 38.8	55 19.9	0.090 4590	6 8753	12 53.2
11	0 8 14.55	6 32.36	+ 0 43 41.1	55 4.5	0.083 5837	7 4295	12 55.9
12	0 14 46.91	6 24.79	1 38 45.6	54 34.5	0.076 1542	7 9943	12 58.4
13	0 21 11.70	6 15.84	2 33 20.1	53 48.9	0.068 1599	8 5637	13 0.8
14	0 27 27.54	6 5.41	3 27 9.0	52 47.1	0.059 5962	9 1313	13 3.1
15	0 33 32.95	5 53.43	4 19 56.1	51 28.7	0.050 4649	9 6906	13 5.1
16	0 39 26.38	5 39.85	5 11 24.8	49 53.6	0.040 7743	10 2335	13 6.9
17	0 45 6.23	5 24.66	+ 6 1 18.4	48 2.0	0.030 5408	10 7527	13 8.5
18	0 50 30.89	5 7.86	6 49 20.4	45 54.5	0.019 7881	11 2405	13 9.9
19	0 55 38.75	4 49.51	7 35 14.9	43 31.6	0.008 5476	11 6895	13 10.9
20	1 0 28.26	4 29.68	8 18 46.5	40 54.1	9.996 8581	12 0922	13 11.6
21	1 4 57.94	4 8.45	8 59 40.6	38 3.3	9.984 7659	12 4424	13 11.9
22	1 9 6.39		+ 9 37 43.9		9.972 3235		13 11.9

Merkur 1932

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
März 22	1 9 6.39	3 45.96	+ 9 37 43.9	35 0.3	9.972 3235	12 7347	13 11.9
23	1 12 52.35	3 22.32	10 12 44.2	31 46.0	9.959 5888	12 9632	13 11.5
24	1 16 14.67	2 57.72	10 44 30.2	28 21.6	9.946 6256	13 1231	13 10.7
25	1 19 12.39	2 32.33	11 12 51.8	24 48.4	9.933 5025	13 2103	13 9.5
26	1 21 44.72	2 6.32	11 37 40.2	21 7.3	9.920 2922	13 2207	13 7.9
27	1 23 51.04	1 39.92	11 58 47.5	17 19.6	9.907 0715	13 1502	13 5.8
28	1 25 30.96	1 13.40	+12 16 7.1	13 26.5	9.893 9213	12 9959	13 3.3
29	1 26 44.36	0 46.97	12 29 33.6	9 29.2	9.880 9254	12 7549	13 0.4
30	1 27 31.33	0 20.93	12 39 2.8	5 29.3	9.868 1705	12 4246	12 57.0
31	1 27 52.26	0 4.41	12 44 32.1	1 28.7	9.855 7459	12 0034	12 53.2
April 1	1 27 47.85	0 28.70	12 46 0.8	2 30.7	9.843 7425	11 4907	12 48.9
2	1 27 19.15	0 51.64	12 43 30.1	6 26.2	9.832 2518	10 8874	12 44.3
3	1 26 27.51	1 12.88	+12 37 3.9	10 15.4	9.821 3644	10 1956	12 39.3
4	1 25 14.63	1 32.07	12 26 48.5	13 54.8	9.811 1688	9 4193	12 34.0
5	1 23 42.56	1 48.89	12 12 53.7	17 21.4	9.801 7495	8 5652	12 28.4
6	1 21 53.67	2 3.10	11 55 32.3	20 31.8	9.793 1843	7 6419	12 22.6
7	1 19 50.57	2 14.42	11 35 0.5	23 22.5	9.785 5424	6 6593	12 16.5
8	1 17 36.15	2 22.71	11 11 38.0	25 50.3	9.778 8831	5 6303	12 10.3
9	1 15 13.44	2 27.89	+10 45 47.7	27 52.9	9.773 2528	4 5695	12 3.9
10	1 12 45.55	2 29.93	10 17 54.8	29 27.9	9.768 6833	3 4916	11 57.5
11	1 10 15.62	2 28.91	9 48 26.9	30 34.0	9.765 1917	2 4117	11 51.1
12	1 7 46.71	2 24.97	9 17 52.9	31 10.8	9.762 7800	1 3461	11 44.7
13	1 5 21.74	2 18.34	8 46 42.1	31 18.6	9.761 4339	3084	11 38.4
14	1 3 3.40	2 9.25	8 15 23.5	30 58.3	9.761 1255	6885	11 32.3
15	1 0 54.15	1 58.02	+ 7 44 25.2	30 12.0	9.761 8140	1 6339	11 26.3
16	0 58 56.13	1 44.95	7 14 13.2	29 2.0	9.763 4479	2 5191	11 20.5
17	0 57 11.18	1 30.40	6 45 11.2	27 30.9	9.765 9670	3 3375	11 15.0
18	0 55 40.78	1 14.68	6 17 40.3	25 42.1	9.769 3045	4 0862	11 9.7
19	0 54 26.10	0 58.09	5 51 58.2	23 38.4	9.773 3907	4 7627	11 4.6
20	0 53 28.01	0 40.91	5 28 19.8	21 22.7	9.778 1534	5 3668	10 59.9
21	0 52 47.10	0 23.40	+ 5 6 57.1	18 58.3	9.783 5202	5 9011	10 55.4
22	0 52 23.70	0 5.77	4 47 58.8	16 27.5	9.789 4213	6 3682	10 51.2
23	0 52 17.93	0 11.79	4 31 31.3	13 52.8	9.795 7895	6 7714	10 47.3
24	0 52 29.72	0 29.15	4 17 38.5	11 16.0	9.802 5609	7 1161	10 43.7
25	0 52 58.87	0 46.16	4 6 22.5	8 39.0	9.809 6770	7 4070	10 40.4
26	0 53 45.03	1 2.75	3 57 43.5	6 3.3	9.817 0840	7 6487	10 37.3
27	0 54 47.78	1 18.85	+ 3 51 40.2	3 30.0	9.824 7327	7 8464	10 34.5
28	0 56 6.63	1 34.43	3 48 10.2	0 59.8	9.832 5791	8 0046	10 32.0
29	0 57 41.06	1 49.44	3 47 10.4	1 26.6	9.840 5837	8 1286	10 29.8
30	0 59 30.50	2 3.89	3 48 37.0	3 48.5	9.848 7123	8 2222	10 27.8
Mai 1	1 1 34.39	2 17.79	3 52 25.5	6 5.5	9.856 9345	8 2889	10 26.0
2	1 3 52.18		+ 3 58 31.0		9.865 2234		10 24.5

Tag		0ʰ Welt-Zeit						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1932		h m s	m s	° ′ ″	′ ″			h m
Mai	2	1 3 52.18	2 31.14	+ 3 58 31.0	8 17.9	9.865 2234	8 3324	10 24.5
	3	1 6 23.32	2 43.98	4 6 48.9	10 24.9	9.873 5558	8 3563	10 23.1
	4	1 9 7.30	2 56.33	4 17 13.8	12 27.0	9.881 9121	8 3627	10 22.0
	5	1 12 3.63	3 8.21	4 29 40.8	14 23.9	9.890 2748	8 3538	10 21.1
	6	1 15 11.84	3 19.67	4 44 4.7	16 15.8	9.898 6286	8 3324	10 20.4
	7	1 18 31.51	3 30.75	5 0 20.5	18 2.7	9.906 9610	8 3000	10 19.8
	8	1 22 2.26	3 41.48	+ 5 18 23.2	19 44.7	9.915 2610	8 2577	10 19.5
	9	1 25 43.74	3 51.92	5 38 7.9	21 21.9	9.923 5187	8 2072	10 19.3
	10	1 29 35.66	4 2.08	5 59 29.8	22 54.6	9.931 7259	8 1496	10 19.3
	11	1 33 37.74	4 12.03	6 22 24.4	24 22.7	9.939 8755	8 0853	10 19.5
	12	1 37 49.77	4 21.82	6 46 47.1	25 46.2	9.947 9608	8 0150	10 19.8
	13	1 42 11.59	4 31.43	7 12 33.3	27 5.4	9.955 9758	7 9394	10 20.3
	14	1 46 43.02	4 40.97	+ 7 39 38.7	28 20.4	9.963 9152	7 8586	10 20.9
	15	1 51 23.99	4 50.46	8 7 59.1	29 31.2	9.971 7738	7 7724	10 21.7
	16	1 56 14.45	4 59.91	8 37 30.3	30 37.7	9.979 5462	7 6812	10 22.7
	17	2 1 14.36	5 9.39	9 8 8.0	31 39.9	9.987 2274	7 5847	10 23.8
	18	2 6 23.75	5 18.92	9 39 47.9	32 38.0	9.994 8121	7 4824	10 25.1
	19	2 11 42.67	5 28.53	10 12 25.9	33 31.7	0.002 2945	7 3742	10 26.6
	20	2 17 11.20	5 38.26	+10 45 57.6	34 21.1	0.009 6687	7 2590	10 28.2
	21	2 22 49.46	5 48.14	11 20 18.7	35 5.8	0.016 9277	7 1362	10 29.9
	22	2 28 37.60	5 58.20	11 55 24.5	35 45.7	0.024 0639	7 0052	10 31.9
	23	2 34 35.80	6 8.45	12 31 10.2	36 20.7	0.031 0691	6 8650	10 34.0
	24	2 40 44.25	6 18.92	13 7 30.9	36 50.4	0.037 9341	6 7147	10 36.3
	25	2 47 3.17	6 29.63	13 44 21.3	37 14.5	0.044 6488	6 5528	10 38.7
	26	2 53 32.80	6 40.57	+14 21 35.8	37 32.5	0.051 2016	6 3780	10 41.3
	27	3 0 13.37	6 51.74	14 59 8.3	37 44.1	0.057 5796	6 1897	10 44.2
	28	3 7 5.11	7 3.15	15 36 52.4	37 48.8	0.063 7693	5 9857	10 47.2
	29	3 14 8.26	7 14.78	16 14 41.2	37 45.8	0.069 7550	5 7647	10 50.4
	30	3 21 23.04	7 26.60	16 52 27.0	37 34.8	0.075 5197	5 5259	10 53.8
	31	3 28 49.64	7 38.55	17 30 1.8	37 15.0	0.081 0456	5 2670	10 57.4
Juni	1	3 36 28.19	7 50.57	+18 7 16.8	36 45.7	0.086 3126	4 9871	11 1.2
	2	3 44 18.76	8 2.59	18 44 2.5	36 6.4	0.091 2997	4 6852	11 5.2
	3	3 52 21.35	8 14.49	19 20 8.9	35 16.3	0.095 9849	4 3607	11 9.4
	4	4 0 35.84	8 26.18	19 55 25.2	34 14.8	0.100 3456	4 0127	11 13.8
	5	4 9 2.02	8 37.49	20 29 40.0	33 1.5	0.104 3583	3 6415	11 18.4
	6	4 17 39.51	8 48.30	21 2 41.5	31 36.0	0.107 9998	3 2480	11 23.2
	7	4 26 27.81	8 58.40	+21 34 17.5	29 58.3	0.111 2478	2 8333	11 28.1
	8	4 35 26.21	9 7.65	22 4 15.8	28 8.5	0.114 0811	2 3994	11 33.3
	9	4 44 33.86	9 15.87	22 32 24.3	26 6.9	0.116 4805	1 9494	11 38.5
	10	4 53 49.73	9 22.87	22 58 31.2	23 54.1	0.118 4299	1 4867	11 43.9
	11	5 3 12.60	9 28.55	23 22 25.3	21 31.4	0.119 9166	1 0151	11 49.4
	12	5 12 41.15		+23 43 56.7		0.120 9317		11 55.0

Merkur 1932

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Juni 12	5 12 41.15	9 32.77	+23 43 56.7	19 0.2	0.120 9317	5390	11 55.0
13	5 22 13.92	9 35.42	24 2 56.9	16 21.4	0.121 4707	635	12 0.7
14	5 31 49.34	9 36.49	24 19 18.3	13 37.4	0.121 5342	4072	12 6.4
15	5 41 25.83	9 35.98	24 32 55.7	10 49.7	0.121 1270	8686	12 12.1
16	5 51 1.81	9 33.90	24 43 45.4	8 0.1	0.120 2584	1 3164	12 17.7
17	6 0 35.71	9 30.32	24 51 45.5	5 10.6	0.118 9420	1 7478	12 23.3
18	6 10 6.03	9 25.35	+24 56 56.1	2 22.8	0.117 1942	2 1597	12 28.9
19	6 19 31.38	9 19.13	24 59 18.9	0 21.8	0.115 0345	2 5504	12 34.3
20	6 28 50.51	9 11.75	24 58 57.1	3 1.9	0.112 4841	2 9184	12 39.7
21	6 38 2.26	9 3.38	24 55 55.2	5 36.4	0.109 5657	3 2635	12 44.9
22	6 47 5.64	8 54.16	24 50 18.8	8 4.6	0.106 3022	3 5857	12 49.9
23	6 55 59.80	8 44.24	24 42 14.2	10 25.7	0.102 7165	3 8847	12 54.8
24	7 4 44.04	8 33.72	+24 31 48.5	12 39.1	0.098 8318	4 1620	12 59.5
25	7 13 17.76	8 22.74	24 19 9.4	14 44.8	0.094 6698	4 4188	13 4.1
26	7 21 40.50	8 11.41	24 4 24.6	16 42.6	0.090 2510	4 6563	13 8.4
27	7 29 51.91	7 59.80	23 47 42.0	18 32.3	0.085 5947	4 8757	13 12.6
28	7 37 51.71	7 48.02	23 29 9.7	20 14.1	0.080 7190	5 0788	13 16.5
29	7 45 39.73	7 36.11	23 8 55.6	21 48.1	0.075 6402	5 2666	13 20.3
30	7 53 15.84	7 24.14	+22 47 7.5	23 14.6	0.070 3736	5 4410	13 23.8
Juli 1	8 0 39.98	7 12.16	22 23 52.9	24 33.5	0.064 9326	5 6037	13 27.2
2	8 7 52.14	7 0.19	21 59 19.4	25 45.3	0.059 3289	5 7554	13 30.3
3	8 14 52.33	6 48.24	21 33 34.1	26 50.3	0.053 5735	5 8974	13 33.3
4	8 21 40.57	6 36.36	21 6 43.8	27 48.4	0.047 6761	6 0310	13 36.0
5	8 28 16.93	6 24.53	20 38 55.4	28 40.1	0.041 6451	6 1573	13 38.6
6	8 34 41.46	6 12.77	+20 10 15.3	29 25.6	0.035 4878	6 2773	13 41.0
7	8 40 54.23	6 1.08	19 40 49.7	30 4.9	0.029 2105	6 3916	13 43.1
8	8 46 55.31	5 49.43	19 10 44.8	30 38.3	0.022 8189	6 5008	13 45.1
9	8 52 44.74	5 37.84	18 40 6.5	31 6.3	0.016 3181	6 6054	13 46.9
10	8 58 22.58	5 26.26	18 9 0.2	31 28.5	0.009 7127	6 7064	13 48.4
11	9 3 48.84	5 14.70	17 37 31.7	31 45.1	0.003 0063	6 8037	13 49.8
12	9 9 3.54	5 3.15	+17 5 46.6	31 56.5	9.996 2026	6 8978	13 51.0
13	9 14 6.69	4 51.54	16 33 50.1	32 2.5	9.989 3048	6 9889	13 52.0
14	9 18 58.23	4 39.89	16 1 47.6	32 3.3	9.982 3159	7 0771	13 52.8
15	9 23 38.12	4 28.17	15 29 44.3	31 58.9	9.975 2388	7 1621	13 53.4
16	9 28 6.29	4 16.33	14 57 45.4	31 49.2	9.968 0767	7 2440	13 53.9
17	9 32 22.62	4 4.34	14 25 56.2	31 34.2	9.960 8327	7 3227	13 54.1
18	9 36 26.96	3 52.19	+13 54 22.0	31 13.8	9.953 5100	7 3972	13 54.1
19	9 40 19.15	3 39.83	13 23 8.2	30 47.9	9.946 1128	7 4678	13 53.8
20	9 43 58.98	3 27.22	12 52 20.3	30 16.5	9.938 6450	7 5334	13 53.5
21	9 47 26.20	3 14.32	12 22 3.8	29 39.3	9.931 1116	7 5926	13 52.9
22	9 50 40.52	3 1.11	11 52 24.5	28 56.0	9.923 5190	7 6447	13 52.0
23	9 53 41.63		+11 23 28.5		9.915 8743		13 51.0

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Juli 23	9 53 41.63	2 47.54	+11 23 28.5	28 6.7	9.915 8743	7 6887	13 51.0
24	9 56 29.17	2 33.60	10 55 21.8	27 10.9	9.908 1856	7 7225	13 49.7
25	9 59 2.77	2 19.23	10 28 10.9	26 8.3	9.900 4631	7 7441	13 48.2
26	10 1 22.00	2 4.40	10 2 2.6	24 58.9	9.892 7190	7 7515	13 46.4
27	10 3 26.40	1 49.08	9 37 3.7	23 42.2	9.884 9675	7 7420	13 44.4
28	10 5 15.48	1 33.27	9 13 21.5	22 17.8	9.877 2255	7 7126	13 42.2
29	10 6 48.75	1 16.94	+ 8 51 3.7	20 45.5	9.869 5129	7 6597	13 39.6
30	10 8 5.69	1 0.10	8 30 18.2	19 5.2	9.861 8532	7 5796	13 36.8
31	10 9 5.79	0 42.75	8 11 13.0	17 16.3	9.854 2736	7 4682	13 33.7
Aug. 1	10 9 48.54	0 24.93	7 53 56.7	15 18.9	9.846 8054	7 3205	13 30.3
2	10 10 13.47	0 6.69	7 38 37.8	13 12.9	9.839 4849	7 1315	13 26.6
3	10 10 20.16	0 11.91	7 25 24.9	10 58.4	9.832 3534	6 8959	13 22.6
4	10 10 8.25	0 30.73	+ 7 14 26.5	8 35.5	9.825 4575	6 6076	13 18.3
5	10 9 37.52	0 49.66	7 5 51.0	6 4.7	9.818 8499	6 2609	13 13.7
6	10 8 47.86	1 8.52	6 59 46.3	3 26.9	9.812 5890	5 8501	13 8.8
7	10 7 39.34	1 27.07	6 56 19.4	0 42.9	9.806 7389	5 3697	13 3.6
8	10 6 12.27	1 45.07	6 55 36.5	2 5.7	9.801 3692	4 8151	12 58.0
9	10 4 27.20	2 2.19	6 57 42.2	4 57.2	9.796 5541	4 1829	12 52.2
10	10 2 25.01	2 18.12	+ 7 2 39.4	7 49.2	9.792 3712	3 4707	12 46.1
11	10 0 6.89	2 32.45	7 10 28.6	10 39.3	9.788 9005	2 6785	12 39.7
12	9 57 34.44	2 44.80	7 21 7.9	13 24.4	9.786 2220	1 8086	12 33.2
13	9 54 49.64	2 54.78	7 34 32.3	16 1.6	9.784 4134	8661	12 26.4
14	9 51 54.86	3 2.01	7 50 33.9	18 27.2	9.783 5473	1414	12 19.5
15	9 48 52.85	3 6.12	8 9 1.1	20 38.0	9.783 6887	1 2029	12 12.6
16	9 45 46.73	3 6.83	+ 8 29 39.1	22 30.9	9.784 8916	2 3048	12 5.5
17	9 42 39.90	3 3.92	8 52 10.0	24 3.2	9.787 1964	3 4314	11 58.5
18	9 39 35.98	2 57.26	9 16 13.2	25 12.5	9.790 6278	4 5651	11 51.6
19	9 36 38.72	2 46.81	9 41 25.7	25 57.3	9.795 1929	5 6871	11 44.8
20	9 33 51.91	2 32.67	10 7 23.0	26 16.5	9.800 8800	6 7792	11 38.2
21	9 31 19.24	2 15.00	10 33 39.5	26 9.9	9.807 6592	7 8237	11 31.9
22	9 29 4.24	1 54.04	+10 59 49.4	25 38.0	9.815 4829	8 8042	11 25.9
23	9 27 10.20	1 30.18	11 25 27.4	24 41.5	9.824 2871	9 7067	11 20.3
24	9 25 40.02	1 3.78	11 50 8.9	23 21.9	9.833 9938	10 5203	11 15.0
25	9 24 36.24	0 35.30	12 13 30.8	21 41.1	9.844 5141	11 2360	11 10.2
26	9 24 0.94	0 5.18	12 35 11.9	19 40.7	9.855 7501	11 8476	11 6.0
27	9 23 55.76	0 26.11	12 54 52.6	17 22.7	9.867 5977	12 3522	11 2.2
28	9 24 21.87	0 58.12	+13 12 15.3	14 49.3	9.879 9499	12 7481	10 58.9
29	9 25 19.99	1 30.38	13 27 4.6	12 2.2	9.892 6980	13 0361	10 56.2
30	9 26 50.37	2 2.50	13 39 6.8	9 3.4	9.905 7341	13 2188	10 54.0
31	9 28 52.87	2 34.10	13 48 10.2	5 55.0	9.918 9529	13 3000	10 52.4
Sept. 1	9 31 26.97	3 4.80	13 54 5.2	2 38.6	9.932 2529	13 2841	10 51.2
2	9 34 31.77		+13 56 43.8		9.945 5370		10 50.6

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Sept. 2	9 34 31.77	3 34.26	+13 56 43.8	0 43.6	9.945 5370	13 1766	10 50.6
3	9 38 6.03	4 2.21	13 56 0.2	4 9.8	9.958 7136	12 9847	10 50.4
4	9 42 8.24	4 28.38	13 51 50.4	7 37.8	9.971 6983	12 7153	10 50.7
5	9 46 36.62	4 52.55	13 44 12.6	11 5.5	9.984 4136	12 3764	10 51.5
6	9 51 29.17	5 14.56	13 33 7.1	14 31.0	9.996 7900	11 9766	10 52.6
7	9 56 43.73	5 34.28	13 18 36.1	17 51.9	0.008 7666	11 5247	10 54.0
8	10 2 18.01	5 51.67	+13 0 44.2	21 6.3	0.020 2913	11 0303	10 55.8
9	10 8 9.68	6 6.68	12 39 37.9	24 12.4	0.031 3216	10 5028	10 57.8
10	10 14 16.36	6 19.37	12 15 25.5	27 8.4	0.041 8244	9 9515	11 0.1
11	10 20 35.73	6 29.83	11 48 17.1	29 53.1	0.051 7759	9 3851	11 2.6
12	10 27 5.56	6 38.17	11 18 24.0	32 25.3	0.061 1610	8 8122	11 5.2
13	10 33 43.73	6 44.57	10 45 58.7	34 44.3	0.069 9732	8 2399	11 7.9
14	10 40 28.30	6 49.20	+10 11 14.4	36 50.1	0.078 2131	7 6750	11 10.8
15	10 47 17.50	6 52.27	9 34 24.3	38 42.3	0.085 8881	7 1224	11 13.7
16	10 54 9.77	6 53.98	8 55 42.0	40 21.1	0.093 0105	6 5866	11 16.6
17	11 1 3.75	6 54.53	8 15 20.9	41 47.2	0.099 5971	6 0709	11 19.6
18	11 7 58.28	6 54.10	7 33 33.7	43 1.0	0.105 6680	5 5771	11 22.6
19	11 14 52.38	6 52.87	6 50 32.7	44 3.4	0.111 2451	5 1069	11 25.5
20	11 21 45.25	6 51.01	+ 6 6 29.3	44 55.1	0.116 3520	4 6607	11 28.5
21	11 28 36.26	6 48.65	5 21 34.2	45 37.1	0.121 0127	4 2386	11 31.4
22	11 35 24.91	6 45.93	4 35 57.1	46 10.1	0.125 2513	3 8401	11 34.2
23	11 42 10.84	6 42.93	3 49 47.0	46 34.9	0.129 0914	3 4647	11 37.0
24	11 48 53.77	6 39.77	3 3 12.1	46 52.3	0.132 5561	3 1111	11 39.8
25	11 55 33.54	6 36.51	2 16 19.8	47 3.4	0.135 6672	2 7780	11 42.5
26	12 2 10.05	6 33.22	+ 1 29 16.4	47 8.4	0.138 4452	2 4641	11 45.1
27	12 8 43.27	6 29.93	+ 0 42 8.0	47 7.9	0.140 9093	2 1682	11 47.7
28	12 15 13.20	6 26.70	− 0 4 59.9	47 2.8	0.143 0775	1 8889	11 50.2
29	12 21 39.90	6 23.56	0 52 2.7	46 53.6	0.144 9664	1 6243	11 52.7
30	12 28 3.46	6 20.53	1 38 56.3	46 40.5	0.146 5907	1 3738	11 55.1
Okt. 1	12 34 23.99	6 17.64	2 25 36.8	46 23.9	0.147 9645	1 1360	11 57.5
2	12 40 41.63	6 14.89	− 3 12 0.7	46 4.2	0.149 1005	9095	11 59.9
3	12 46 56.52	6 12.29	3 58 4.9	45 41.9	0.150 0100	6931	12 2.2
4	12 53 8.81	6 9.87	4 43 46.8	45 16.9	0.150 7031	4859	12 4.4
5	12 59 18.68	6 7.59	5 29 3.7	44 49.9	0.151 1890	2868	12 6.6
6	13 5 26.27	6 5.50	6 13 53.6	44 20.8	0.151 4758	949	12 8.8
7	13 11 31.77	6 3.57	6 58 14.4	43 49.6	0.151 5707	908	12 10.9
8	13 17 35.34	6 1.81	− 7 42 4.0	43 16.9	0.151 4799	2709	12 13.0
9	13 23 37.15	6 0.21	8 25 20.9	42 42.5	0.151 2090	4464	12 15.1
10	13 29 37.36	5 58.76	9 8 3.4	42 6.7	0.150 7626	6182	12 17.1
11	13 35 36.12	5 57.46	9 50 10.1	41 29.3	0.150 1444	7868	12 19.2
12	13 41 33.58	5 56.32	10 31 39.4	40 50.6	0.149 3576	9527	12 21.2
13	13 47 29.90		−11 12 30.0		0.148 4049		12 23.2

Tag	0^h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Okt. 13	13 47 29.90	5 55.31	−11 12 30.0	40 10.7	0.148 4049	1 1170	12 23.2
14	13 53 25.21	5 54.43	11 52 40.7	39 29.5	0.147 2879	1 2803	12 25.1
15	13 59 19.64	5 53.68	12 32 10.2	38 47.1	0.146 0076	1 4425	12 27.1
16	14 5 13.32	5 53.02	13 10 57.3	38 3.4	0.144 5651	1 6048	12 29.1
17	14 11 6.34	5 52.47	13 49 0.7	37 18.7	0.142 9603	1 7677	12 31.0
18	14 16 58.81	5 52.00	14 26 19.4	36 32.5	0.141 1926	1 9316	12 32.9
19	14 22 50.81	5 51.61	−15 2 51.9	35 45.3	0.139 2610	2 0970	12 34.8
20	14 28 42.42	5 51.29	15 38 37.2	34 56.9	0.137 1640	2 2646	12 36.8
21	14 34 33.71	5 51.00	16 13 34.1	34 7.2	0.134 8994	2 4348	12 38.7
22	14 40 24.71	5 50.73	16 47 41.3	33 16.2	0.132 4646	2 6081	12 40.6
23	14 46 15.44	5 50.49	17 20 57.5	32 24.0	0.129 8565	2 7849	12 42.5
24	14 52 5.93	5 50.25	17 53 21.5	31 30.5	0.127 0716	2 9661	12 44.4
25	14 57 56.18	5 49.96	−18 24 52.0	30 35.5	0.124 1055	3 1522	12 46.3
26	15 3 46.14	5 49.63	18 55 27.5	29 39.2	0.120 9533	3 3431	12 48.2
27	15 9 35.77	5 49.21	19 25 6.7	28 41.5	0.117 6102	3 5401	12 50.1
28	15 15 24.98	5 48.69	19 53 48.2	27 42.2	0.114 0701	3 7436	12 51.9
29	15 21 13.67	5 48.02	20 21 30.4	26 41.3	0.110 3265	3 9537	12 53.8
30	15 27 1.69	5 47.18	20 48 11.7	25 39.1	0.106 3728	4 1715	12 55.6
31	15 32 48.87	5 46.10	−21 13 50.8	24 35.0	0.102 2013	4 3974	12 57.5
Nov. 1	15 38 34.97	5 44.79	21 38 25.8	23 29.1	0.097 8039	4 6319	12 59.3
2	15 44 19.76	5 43.17	22 1 54.9	22 21.7	0.093 1720	4 8753	13 1.1
3	15 50 2.93	5 41.16	22 24 16.6	21 12.5	0.088 2967	5 1285	13 2.9
4	15 55 44.09	5 38.75	22 45 29.1	20 1.6	0.083 1682	5 3921	13 4.6
5	16 1 22.84	5 35.84	23 5 30.7	18 48.5	0.077 7761	5 6664	13 6.3
6	16 6 58.68	5 32.37	−23 24 19.2	17 33.7	0.072 1097	5 9522	13 7.9
7	16 12 31.05	5 28.25	23 41 52.9	16 17.0	0.066 1575	6 2496	13 9.4
8	16 17 59.30	5 23.36	23 58 9.9	14 58.1	0.059 9079	6 5589	13 10.9
9	16 23 22.66	5 17.63	24 13 8.0	13 37.2	0.053 3490	6 8804	13 12.3
10	16 28 40.29	5 10.93	24 26 45.2	12 14.2	0.046 4686	7 2139	13 13.6
11	16 33 51.22	5 3.11	24 38 59.4	10 49.0	0.039 2547	7 5594	13 14.8
12	16 38 54.33	4 54.00	−24 49 48.4	9 21.8	0.031 6953	7 9157	13 15.8
13	16 43 48.33	4 43.47	24 59 10.2	7 52.2	0.023 7796	8 2817	13 16.7
14	16 48 31.80	4 31.31	25 7 2.4	6 20.1	0.015 4979	8 6559	13 17.4
15	16 53 3.11	4 17.33	25 13 22.5	4 45.7	0.006 8420	9 0353	13 17.8
16	16 57 20.44	4 1.28	25 18 8.2	3 8.6	9.997 8067	9 4156	13 18.0
17	17 1 21.72	3 42.93	25 21 16.8	1 28.9	9.988 3911	9 7921	13 17.9
18	17 5 4.65	3 22.05	−25 22 45.7	0 13.7	9.978 5990	10 1577	13 17.5
19	17 8 26.70	2 58.38	25 22 32.0	1 59.6	9.968 4413	10 5030	13 16.7
20	17 11 25.08	2 31.69	25 20 32.4	3 48.8	9.957 9383	10 8167	13 15.5
21	17 13 56.77	2 1.78	25 16 43.6	5 42.0	9.947 1216	11 0836	13 13.8
22	17 15 58.55	1 28.50	25 11 1.6	7 39.3	9.936 0380	11 2853	13 11.6
23	17 17 27.05		−25 3 22.3		9.924 7527		13 8.8

Merkur 1932

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1932	h m s	m s	° ′ ″	′ ″			h m
Nov. 23	17 17 27.05	0 51.83	−25 3 22.3	9 41.4	9.924 7527	11 3997	13 8.8
24	17 18 18.88	0 11.88	24 53 40.9	11 48.4	9.913 3530	11 4010	13 5.4
25	17 18 30.76	0 31.02	24 41 52.5	14 0.1	9.901 9520	11 2596	13 1.3
26	17 17 59.74	1 16.27	24 27 52.4	16 16.5	9.890 6924	10 9433	12 56.5
27	17 16 43.47	2 2.92	24 11 35.9	18 36.1	9.879 7491	10 4198	12 50.8
28	17 14 40.55	2 49.63	23 52 59.8	20 56.5	9.869 3293	9 6604	12 44.5
29	17 11 50.92	3 34.67	−23 32 3.3	23 13.5	9.859 6689	8 6432	12 37.3
30	17 8 16.25	4 15.99	23 8 49.8	25 21.4	9.851 0257	7 3588	12 29.5
Dez. 1	17 4 0.26	4 51.36	22 43 28.4	27 12.2	9.843 6669	5 8167	12 21.0
2	16 59 8.90	5 18.60	22 16 16.2	28 36.9	9.837 8502	4 0473	12 12.0
3	16 53 50.30	5 35.84	21 47 39.3	29 26.0	9.833 8029	2 1054	12 2.6
4	16 48 14.46	5 41.88	21 18 13.3	29 31.3	9.831 6975	641	11 53.1
5	16 42 32.58	5 36.29	−20 48 42.0	28 47.5	9.831 6334	1 9904	11 43.5
6	16 36 56.29	5 19.58	20 19 54.5	27 13.3	9.833 6238	3 9697	11 34.2
7	16 31 36.71	4 53.05	19 52 41.2	24 51.6	9.837 5935	5 7942	11 25.1
8	16 26 43.66	4 18.59	19 27 49.6	21 50.0	9.843 3877	7 4025	11 16.6
9	16 22 25.07	3 38.40	19 5 59.6	18 18.7	9.850 7902	8 7553	11 8.7
10	16 18 46.67	2 54.65	18 47 40.9	14 29.0	9.859 5455	9 8360	11 1.5
11	16 15 52.02	2 9.34	−18 33 11.9	10 32.2	9.869 3815	10 6487	10 55.0
12	16 13 42.68	1 24.11	18 22 39.7	6 37.9	9.880 0302	11 2117	10 49.3
13	16 12 18.57	0 40.25	18 16 1.8	2 54.1	9.891 2419	11 5538	10 44.3
14	16 11 38.32	0 1.38	18 13 7.7	0 33.3	9.902 7957	11 7076	10 40.0
15	16 11 39.70	0 40.24	18 13 41.0	3 41.1	9.914 5033	11 7063	10 36.4
16	16 12 19.94	1 16.06	18 17 22.1	6 27.3	9.926 2096	11 5818	10 33.4
17	16 13 36.00	1 48.75	−18 23 49.4	8 51.0	9.937 7914	11 3625	10 31.0
18	16 15 24.75	2 18.36	18 32 40.4	10 53.0	9.949 1539	11 0723	10 29.1
19	16 17 43.11	2 45.05	18 43 33.4	12 33.9	9.960 2262	10 7317	10 27.6
20	16 20 28.16	3 9.04	18 56 7.3	13 55.7	9.970 9579	10 3569	10 26.6
21	16 23 37.20	3 30.55	19 10 3.0	14 59.6	9.981 3148	9 9609	10 26.0
22	16 27 7.75	3 49.80	19 25 2.6	15 47.3	9.991 2757	9 5539	10 25.7
23	16 30 57.55	4 7.04	−19 40 49.9	16 20.5	0.000 8296	9 1437	10 25.7
24	16 35 4.59	4 22.51	19 57 10.4	16 40.8	0.009 9733	8 7356	10 26.0
25	16 39 27.10	4 36.38	20 13 51.2	16 49.6	0.018 7089	8 3343	10 26.6
26	16 44 3.48	4 48.85	20 30 40.8	16 48.1	0.027 0432	7 9424	10 27.4
27	16 48 52.33	5 0.07	20 47 28.9	16 37.7	0.034 9856	7 5623	10 28.3
28	16 53 52.40	5 10.20	21 4 6.6	16 19.5	0.042 5479	7 1954	10 29.4
29	16 59 2.60	5 19.37	−21 20 26.1	15 54.1	0.049 7433	6 8419	10 30.7
30	17 4 21.97	5 27.70	21 36 20.2	15 22.5	0.056 5852	6 5024	10 32.1
31	17 9 49.67	5 35.27	21 51 42.7	14 45.4	0.063 0876	6 1768	10 33.7
32	17 15 24.94		−22 6 28.1		0.069 2644		10 35.4

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension			Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″				h m
Jan. 0	20 37 5.55	5 6.74	−20 20 55.6	18 42.8	0.154 5359	1 4254	14 3.9
1	20 42 12.29	5 5.40	20 2 12.8	19 17.0	0.153 1105	1 4398	14 5.1
2	20 47 17.69	5 4.02	19 42 55.8	19 50.4	0.151 6707	1 4545	14 6.2
3	20 52 21.71	5 2.65	19 23 5.4	20 23.1	0.150 2162	1 4694	14 7.3
4	20 57 24.36	5 1.27	19 2 42.3	20 55.0	0.148 7468	1 4846	14 8.4
5	21 2 25.63	4 59.87	18 41 47.3	21 26.3	0.147 2622	1 4999	14 9.5
6	21 7 25.50	4 58.48	−18 20 21.0	21 56.7	0.145 7623	1 5157	14 10.5
7	21 12 23.98	4 57.08	17 58 24.3	22 26.5	0.144 2466	1 5315	14 11.6
8	21 17 21.06	4 55.69	17 35 57.8	22 55.3	0.142 7151	1 5476	14 12.6
9	21 22 16.75	4 54.28	17 13 2.5	23 23.5	0.141 1675	1 5639	14 13.5
10	21 27 11.03	4 52.90	16 49 39.0	23 50.7	0.139 6036	1 5805	14 14.5
11	21 32 3.93	4 51.51	16 25 48.3	24 17.3	0.138 0231	1 5970	14 15.4
12	21 36 55.44	4 50.13	−16 1 31.0	24 42.9	0.136 4261	1 6136	14 16.3
13	21 41 45.57	4 48.76	15 36 48.1	25 7.8	0.134 8125	1 6306	14 17.2
14	21 46 34.33	4 47.41	15 11 40.3	25 31.8	0.133 1819	1 6475	14 18.1
15	21 51 21.74	4 46.07	14 46 8.5	25 55.1	0.131 5344	1 6647	14 18.9
16	21 56 7.81	4 44.75	14 20 13.4	26 17.6	0.129 8697	1 6821	14 19.7
17	22 0 52.56	4 43.45	13 53 55.8	26 39.3	0.128 1876	1 6996	14 20.5
18	22 5 36.01	4 42.16	−13 27 16.5	27 0.1	0.126 4880	1 7172	14 21.3
19	22 10 18.17	4 40.90	13 0 16.4	27 20.1	0.124 7708	1 7349	14 22.0
20	22 14 59.07	4 39.67	12 32 56.3	27 39.4	0.123 0359	1 7527	14 22.7
21	22 19 38.74	4 38.46	12 5 16.9	27 57.8	0.121 2832	1 7705	14 23.4
22	22 24 17.20	4 37.27	11 37 19.1	28 15.5	0.119 5127	1 7885	14 24.1
23	22 28 54.47	4 36.13	11 9 3.6	28 32.3	0.117 7242	1 8067	14 24.8
24	22 33 30.60	4 35.01	−10 40 31.3	28 48.4	0.115 9175	1 8250	14 25.4
25	22 38 5.61	4 33.91	10 11 42.9	29 4.0	0.114 0925	1 8435	14 26.1
26	22 42 39.52	4 32.86	9 42 38.9	29 18.6	0.112 2490	1 8621	14 26.7
27	22 47 12.38	4 31.85	9 13 20.3	29 32.4	0.110 3869	1 8810	14 27.3
28	22 51 44.23	4 30.86	8 43 47.9	29 45.4	0.108 5059	1 9002	14 27.9
29	22 56 15.09	4 29.92	8 14 2.5	29 57.8	0.106 6057	1 9196	14 28.4
30	23 0 45.01	4 29.01	−7 44 4.7	30 9.4	0.104 6861	1 9393	14 29.0
31	23 5 14.02	4 28.13	7 13 55.3	30 20.2	0.102 7468	1 9594	14 29.5
Febr. 1	23 9 42.15	4 27.29	6 43 35.1	30 30.4	0.100 7874	1 9799	14 30.0
2	23 14 9.44	4 26.49	6 13 4.7	30 39.8	0.098 8075	2 0007	14 30.5
3	23 18 35.93	4 25.72	5 42 24.9	30 48.4	0.096 8068	2 0218	14 31.0
4	23 23 1.65	4 24.98	5 11 36.5	30 56.2	0.094 7850	2 0434	14 31.5
5	23 27 26.63	4 24.28	−4 40 40.3	31 3.2	0.092 7416	2 0652	14 32.0
6	23 31 50.91	4 23.62	4 9 37.1	31 9.7	0.090 6764	2 0874	14 32.4
7	23 36 14.53	4 22.99	3 38 27.4	31 15.3	0.088 5890	2 1099	14 32.9
8	23 40 37.52	4 22.39	3 7 12.1	31 19.9	0.086 4791	2 1327	14 33.3
9	23 44 59.91	4 21.83	2 35 52.2	31 24.0	0.084 3464	2 1558	14 33.7
10	23 49 21.74		−2 4 28.2		0.082 1906		14 34.1

Tag	0h Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	23 49 21.74	4 21.30	− 2 4 28.2	31 27.3	0.082 1906	2 1793	14 34.1
11	23 53 43.04	4 20.81	1 33 0.9	31 29.9	0.080 0113	2 2031	14 34.5
12	23 58 3.85	4 20.35	1 1 31.0	31 31.6	0.077 8082	2 2271	14 34.9
13	0 2 24.20	4 19.93	− 0 29 59.4	31 32.8	0.075 5811	2 2513	14 35.3
14	0 6 44.13	4 19.55	+ 0 1 33.4	31 33.0	0.073 3298	2 2759	14 35.7
15	0 11 3.68	4 19.18	0 33 6.4	31 32.6	0.071 0539	2 3008	14 36.1
16	0 15 22.86	4 18.86	+ 1 4 39.0	31 31.6	0.068 7531	2 3257	14 36.5
17	0 19 41.72	4 18.56	1 36 10.6	31 29.7	0.066 4274	2 3510	14 36.8
18	0 24 0.28	4 18.32	2 7 40.3	31 27.1	0.064 0764	2 3766	14 37.2
19	0 28 18.60	4 18.09	2 39 7.4	31 23.9	0.061 6998	2 4025	14 37.6
20	0 32 36.69	4 17.92	3 10 31.3	31 19.7	0.059 2973	2 4284	14 37.9
21	0 36 54.61	4 17.77	3 41 51.0	31 15.1	0.056 8689	2 4546	14 38.3
22	0 41 12.38	4 17.64	+ 4 13 6.1	31 9.8	0.054 4143	2 4810	14 38.6
23	0 45 30.02	4 17.56	4 44 15.9	31 3.6	0.051 9333	2 5076	14 39.0
24	0 49 47.58	4 17.51	5 15 19.5	30 57.0	0.049 4257	2 5346	14 39.3
25	0 54 5.09	4 17.50	5 46 16.5	30 49.5	0.046 8911	2 5619	14 39.7
26	0 58 22.59	4 17.52	6 17 6.0	30 41.5	0.044 3292	2 5897	14 40.0
27	1 2 40.11	4 17.57	6 47 47.5	30 32.9	0.041 7395	2 6179	14 40.4
28	1 6 57.68	4 17.67	+ 7 18 20.4	30 23.5	0.039 1216	2 6466	14 40.7
29	1 11 15.35	4 17.77	7 48 43.9	30 13.4	0.036 4750	2 6756	14 41.1
März 1	1 15 33.12	4 17.92	8 18 57.3	30 2.6	0.033 7994	2 7052	14 41.4
2	1 19 51.04	4 18.08	8 48 59.9	29 51.3	0.031 0942	2 7354	14 41.8
3	1 24 9.12	4 18.29	9 18 51.2	29 39.1	0.028 3588	2 7660	14 42.1
4	1 28 27.41	4 18.50	9 48 30.3	29 26.3	0.025 5928	2 7970	14 42.5
5	1 32 45.91	4 18.74	+10 17 56.6	29 12.9	0.022 7958	2 8288	14 42.9
6	1 37 4.65	4 19.00	10 47 9.5	28 58.7	0.019 9670	2 8610	14 43.3
7	1 41 23.65	4 19.27	11 16 8.2	28 43.8	0.017 1060	2 8937	14 43.0
8	1 45 42.92	4 19.56	11 44 52.0	28 28.3	0.014 2123	2 9268	14 44.0
9	1 50 2.48	4 19.86	12 13 20.3	28 12.1	0.011 2855	2 9606	14 44.4
10	1 54 22.34	4 20.18	12 41 32.4	27 55.1	0.008 3249	2 9948	14 44.8
11	1 58 42.52	4 20.50	+13 9 27.5	27 37.5	0.005 3301	3 0295	14 45.2
12	2 3 3.02	4 20.84	13 37 5.0	27 19.2	0.002 3006	3 0646	14 45.6
13	2 7 23.86	4 21.17	14 4 24.2	27 0.2	9.999 2360	3 1002	14 46.0
14	2 11 45.03	4 21.53	14 31 24.4	26 40.6	9.996 1358	3 1363	14 46.4
15	2 16 6.56	4 21.87	14 58 5.0	26 20.3	9.992 9995	3 1729	14 46.8
16	2 20 28.43	4 22.21	15 24 25.3	25 59.5	9.989 8266	3 2098	14 47.3
17	2 24 50.64	4 22.55	+15 50 24.8	25 37.8	9.986 6168	3 2472	14 47.7
18	2 29 13.19	4 22.90	16 16 2.6	25 15.6	9.983 3696	3 2850	14 48.1
19	2 33 36.09	4 23.23	16 41 18.2	24 52.8	9.980 0846	3 3233	14 48.6
20	2 37 59.32	4 23.56	17 6 11.0	24 29.4	9.976 7613	3 3617	14 49.0
21	2 42 22.88	4 23.88	17 30 40.4	24 5.4	9.973 3996	3 4006	14 49.5
22	2 46 46.76		+17 54 45.8		9.969 9990		14 49.9

Venus 1932

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension	Diff.	0ʰ Welt-Zeit: Scheinbare Deklination	Diff.	0ʰ Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
März 22	2 46 46.76	4 24.19	+17 54 45.8	23 40.8	9.969 9990	3 4399	14 49.9
23	2 51 10.95	4 24.49	18 18 26.6	23 15.7	9.966 5591	3 4796	14 50.4
24	2 55 35.44	4 24.78	18 41 42.3	22 49.9	9.963 0795	3 5198	14 50.9
25	3 0 0.22	4 25.07	19 4 32.2	22 23.8	9.959 5597	3 5605	14 51.3
26	3 4 25.29	4 25.32	19 26 56.0	21 57.0	9.955 9992	3 6016	14 51.8
27	3 8 50.61	4 25.57	19 48 53.0	21 29.8	9.952 3976	3 6435	14 52.3
28	3 13 16.18	4 25.79	+20 10 22.8	21 2.0	9.948 7541	3 6860	14 52.8
29	3 17 41.97	4 25.98	20 31 24.8	20 33.7	9.945 0681	3 7291	14 53.3
30	3 22 7.95	4 26.15	20 51 58.5	20 5.2	9.941 3390	3 7729	14 53.8
31	3 26 34.10	4 26.27	21 12 3.7	19 35.9	9.937 5661	3 8176	14 54.3
April 1	3 31 0.37	4 26.36	21 31 39.6	19 6.2	9.933 7485	3 8630	14 54.8
2	3 35 26.73	4 26.41	21 50 45.8	18 36.0	9.929 8855	3 9090	14 55.3
3	3 39 53.14	4 26.42	+22 9 21.8	18 5.5	9.925 9765	3 9560	14 55.8
4	3 44 19.56	4 26.37	22 27 27.3	17 34.6	9.922 0205	4 0036	14 56.3
5	3 48 45.93	4 26.27	22 45 1.9	17 3.1	9.918 0169	4 0520	14 56.8
6	3 53 12.20	4 26.10	23 2 5.0	16 31.3	9.913 9649	4 1012	14 57.2
7	3 57 38.30	4 25.89	23 18 36.3	15 59.5	9.909 8637	4 1510	14 57.7
8	4 2 4.19	4 25.59	23 34 35.8	15 26.9	9.905 7127	4 2016	14 58.2
9	4 6 29.78	4 25.24	+23 50 2.7	14 54.0	9.901 5111	4 2530	14 58.7
10	4 10 55.02	4 24.80	24 4 56.7	14 21.1	9.897 2581	4 3051	14 59.2
11	4 15 19.82	4 24.30	24 19 17.8	13 47.7	9.892 9530	4 3579	14 59.6
12	4 19 44.12	4 23.70	24 33 5.5	13 14.2	9.888 5951	4 4114	15 0.1
13	4 24 7.82	4 23.02	24 46 19.7	12 40.4	9.884 1837	4 4655	15 0.5
14	4 28 30.84	4 22.26	24 59 0.1	12 6.5	9.879 7182	4 5205	15 1.0
15	4 32 53.10	4 21.39	+25 11 6.6	11 32.4	9.875 1977	4 5759	15 1.4
16	4 37 14.49	4 20.43	25 22 39.0	10 58.2	9.870 6218	4 6318	15 1.8
17	4 41 34.92	4 19.38	25 33 37.2	10 24.0	9.865 9900	4 6883	15 2.2
18	4 45 54.30	4 18.22	25 44 1.2	9 49.8	9.861 3017	4 7453	15 2.6
19	4 50 12.52	4 16.95	25 53 51.0	9 15.5	9.856 5564	4 8027	15 2.9
20	4 54 29.47	4 15.59	26 3 6.5	8 41.2	9.851 7537	4 8606	15 3.2
21	4 58 45.06	4 14.12	+26 11 47.7	8 7.1	9.846 8931	4 9189	15 3.5
22	5 2 59.18	4 12.55	26 19 54.8	7 32.9	9.841 9742	4 9777	15 3.8
23	5 7 11.73	4 10.87	26 27 27.7	6 59.0	9.836 9965	5 0369	15 4.1
24	5 11 22.60	4 9.08	26 34 26.7	6 25.2	9.831 9596	5 0971	15 4.3
25	5 15 31.68	4 7.17	26 40 51.9	5 51.6	9.826 8625	5 1576	15 4.5
26	5 19 38.85	4 5.15	26 46 43.5	5 18.1	9.821 7049	5 2190	15 4.6
27	5 23 44.00	4 3.00	+26 52 1.6	4 45.1	9.816 4859	5 2809	15 4.7
28	5 27 47.00	4 0.72	26 56 46.7	4 12.0	9.811 2050	5 3436	15 4.8
29	5 31 47.72	3 58.32	27 0 58.7	3 39.5	9.805 8614	5 4069	15 4.9
30	5 35 46.04	3 55.77	27 4 38.2	3 7.2	9.800 4545	5 4709	15 4.9
Mai 1	5 39 41.81	3 53.09	27 7 45.4	2 35.3	9.794 9836	5 5355	15 4.8
2	5 43 34.90		+27 10 20.7		9.789 4481		15 4.7

Venus 1932

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Mai 2	5 43 34.90	3 50.26	+27 10 20.7	2 3.8	9.789 4481	5 6006	15 4.7
3	5 47 25.16	3 47.28	27 12 24.5	1 32.7	9.783 8475	5 6663	15 4.6
4	5 51 12.44	3 44.15	27 13 57.2	1 2.0	9.778 1812	5 7325	15 4.4
5	5 54 56.59	3 40.85	27 14 59.2	0 31.9	9.772 4487	5 7990	15 4.2
6	5 58 37.44	3 37.39	27 15 31.1	0 2.2	9.766 6497	5 8660	15 3.9
7	6 2 14.83	3 33.77	27 15 33.3	0 26.9	9.760 7837	5 9330	15 3.5
8	6 5 48.60	3 29.97	+27 15 6.4	0 55.5	9.754 8507	6 0004	15 3.1
9	6 9 18.57	3 25.99	27 14 10.9	1 23.4	9.748 8503	6 0676	15 2.6
10	6 12 44.56	3 21.81	27 12 47.5	1 50.8	9.742 7827	6 1348	15 2.1
11	6 16 6.37	3 17.46	27 10 56.7	2 17.4	9.736 6479	6 2016	15 1.4
12	6 19 23.83	3 12.91	27 8 39.3	2 43.4	9.730 4463	6 2674	15 0.7
13	6 22 36.74	3 8.16	27 5 55.9	3 8.6	9.724 1789	6 3330	15 0.0
14	6 25 44.90	3 3.21	+27 2 47.3	3 33.2	9.717 8459	6 3974	14 59.1
15	6 28 48.11	2 58.05	26 59 14.1	3 57.1	9.711 4485	6 4606	14 58.2
16	6 31 46.16	2 52.67	26 55 17.0	4 20.1	9.704 9879	6 5224	14 57.1
17	6 34 38.83	2 47.08	26 50 56.9	4 42.3	9.698 4655	6 5823	14 56.0
18	6 37 25.91	2 41.29	26 46 14.6	5 3.9	9.691 8832	6 6400	14 54.8
19	6 40 7.20	2 35.27	26 41 10.7	5 24.6	9.685 2432	6 6953	14 53.5
20	6 42 42.47	2 29.03	+26 35 46.1	5 44.5	9.678 5479	6 7478	14 52.1
21	6 45 11.50	2 22.58	26 30 1.6	6 3.7	9.671 8001	6 7971	14 50.5
22	6 47 34.08	2 15.91	26 23 57.9	6 21.9	9.665 0030	6 8434	14 48.9
23	6 49 49.99	2 9.01	26 17 36.0	6 39.6	9.658 1596	6 8856	14 47.2
24	6 51 59.00	2 1.88	26 10 56.4	6 56.5	9.651 2740	6 9239	14 45.3
25	6 54 0.88	1 54.53	26 3 59.9	7 12.7	9.644 3501	6 9577	14 43.3
26	6 55 55.41	1 46.92	+25 56 47.2	7 28.1	9.637 3924	6 9869	14 41.2
27	6 57 42.33	1 39.09	25 49 19.1	7 42.7	9.630 4055	7 0104	14 39.0
28	6 59 21.42	1 31.00	25 41 36.4	7 56.8	9.623 3951	7 0280	14 36.6
29	7 0 52.42	1 22.67	25 33 39.6	8 10.0	9.616 3671	7 0386	14 34.1
30	7 2 15.09	1 14.11	25 25 29.6	8 22.8	9.609 3285	7 0415	14 31.5
31	7 3 29.20	1 5.30	25 17 6.8	8 35.0	9.602 2870	7 0361	14 28.7
Juni 1	7 4 34.50	0 56.25	+25 8 31.8	8 46.5	9.595 2509	7 0220	14 25.7
2	7 5 30.75	0 46.95	24 59 45.3	8 57.5	9.588 2289	6 9979	14 22.6
3	7 6 17.70	0 37.45	24 50 47.8	9 8.1	9.581 2310	6 9628	14 19.4
4	7 6 55.15	0 27.71	24 41 39.7	9 18.0	9.574 2682	6 9158	14 16.0
5	7 7 22.86	0 17.78	24 32 21.7	9 27.8	9.567 3524	6 8558	14 12.4
6	7 7 40.64	0 7.67	24 22 53.9	9 37.1	9.560 4966	6 7820	14 8.7
7	7 7 48.31	0 2.61	+24 13 16.8	9 46.0	9.553 7146	6 6928	14 4.8
8	7 7 45.70	0 13.03	24 3 30.8	9 54.5	9.547 0218	6 5876	14 0.7
9	7 7 32.67	0 23.54	23 53 36.3	10 2.9	9.540 4342	6 4647	13 56.4
10	7 7 9.13	0 34.11	23 43 33.4	10 11.2	9.533 9695	6 3233	13 52.0
11	7 6 35.02	0 44.71	23 33 22.2	10 19.3	9.527 6462	6 1625	13 47.4
12	7 5 50.31		+23 23 2.9		9.521 4837		13 42.6

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Juni 12	7 5 50.31	0 55.28	+23 23 2.9	10 27.0	9.521 4837	5 9809	13 42.6
13	7 4 55.03	1 5.75	23 12 35.9	10 34.7	9.515 5028	5 7771	13 37.7
14	7 3 49.28	1 16.07	23 2 1.2	10 42.2	9.509 7257	5 5515	13 32.6
15	7 2 33.21	1 26.17	22 51 19.0	10 49.5	9.504 1742	5 3022	13 27.3
16	7 1 7.04	1 35.96	22 40 29.5	10 56.5	9.498 8720	5 0309	13 21.8
17	6 59 31.08	1 45.36	22 29 33.0	11 3.1	9.493 8411	4 7354	13 16.2
18	6 57 45.72	1 54.30	+22 18 29.9	11 9.5	9.489 1057	4 4170	13 10.5
19	6 55 51.42	2 2.69	22 7 20.4	11 15.2	9.484 6887	4 0769	13 4.6
20	6 53 48.73	2 10.48	21 56 5.2	11 20.4	9.480 6118	3 7154	12 58.5
21	6 51 38.25	2 17.56	21 44 44.8	11 24.8	9.476 8964	3 3335	12 52.4
22	6 49 20.69	2 23.84	21 33 20.0	11 28.1	9.473 5629	2 9333	12 46.1
23	6 46 56.85	2 29.32	21 21 51.9	11 30.4	9.470 6296	2 5165	12 39.8
24	6 44 27.53	2 33.91	+21 10 21.5	11 31.0	9.468 1131	2 0856	12 33.3
25	6 41 53.62	2 37.56	20 58 50.5	11 30.2	9.466 0275	1 6421	12 26.8
26	6 39 16.06	2 40.23	20 47 20.3	11 27.6	9.464 3854	1 1895	12 20.3
27	6 36 35.83	2 41.89	20 35 52.7	11 22.9	9.463 1959	7302	12 13.7
28	6 33 53.94	2 42.55	20 24 29.8	11 16.2	9.462 4657	2672	12 7.0
29	6 31 11.39	2 42.20	20 13 13.6	11 7.0	9.462 1985	1966	12 0.4
30	6 28 29.19	2 40.82	+20 2 6.6	10 55.6	9.462 3951	6580	11 53.8
Juli 1	6 25 48.37	2 38.46	19 51 11.0	10 41.4	9.463 0531	1 1147	11 47.2
2	6 23 9.91	2 35.15	19 40 29.6	10 25.0	9.464 1678	1 5632	11 40.7
3	6 20 34.76	2 30.95	19 30 4.6	10 6.0	9.465 7310	2 0006	11 34.2
4	6 18 3.81	2 25.89	19 19 58.6	9 44.9	9.467 7316	2 4250	11 27.8
5	6 15 37.92	2 20.02	19 10 13.7	9 21.4	9.470 1566	2 8350	11 21.5
6	6 13 17.90	2 13.45	+19 0 52.3	8 55.7	9.472 9916	3 2279	11 15.3
7	6 11 4.45	2 6.22	18 51 56.6	8 28.2	9.476 2195	3 6019	11 9.3
8	6 8 58.23	1 58.42	18 43 28.4	7 58.9	9.479 8214	3 9560	11 3.3
9	6 6 59.81	1 50.08	18 35 29.5	7 28.1	9.483 7774	4 2896	10 57.5
10	6 5 9.73	1 41.32	18 28 1.4	6 56.1	9.488 0670	4 6020	10 51.8
11	6 3 28.41	1 32.19	18 21 5.3	6 23.3	9.492 6690	4 8926	10 46.2
12	6 1 56.22	1 22.75	+18 14 42.0	5 50.0	9.497 5616	5 1612	10 40.8
13	6 0 33.47	1 13.09	18 8 52.0	5 16.1	9.502 7228	5 4076	10 35.6
14	5 59 20.38	1 3.25	18 3 35.9	4 42.0	9.508 1304	5 6322	10 30.5
15	5 58 17.13	0 53.26	17 58 53.9	4 8.2	9.513 7626	5 8354	10 25.6
16	5 57 23.87	0 43.23	17 54 45.7	3 34.9	9.519 5980	6 0180	10 20.9
17	5 56 40.64	0 33.17	17 51 10.8	3 2.0	9.525 6160	6 1801	10 16.3
18	5 56 7.47	0 23.16	+17 48 8.8	2 30.2	9.531 7961	6 3227	10 11.9
19	5 55 44.31	0 13.20	17 45 38.6	1 59.0	9.538 1188	6 4467	10 7.7
20	5 55 31.11	0 3.35	17 43 39.6	1 29.5	9.544 5655	6 5532	10 3.6
21	5 55 27.76	0 6.34	17 42 10.1	1 1.1	9.551 1187	6 6428	9 59.7
22	5 55 34.10	0 15.86	17 41 9.0	0 34.2	9.557 7615	6 7173	9 55.9
23	5 55 49.96		+17 40 34.8		9.564 4788		9 52.3

Venus 1932

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Juli 23	5 55 49.96	0 25.20	+17 40 34.8	0 8.9	9.564 4788	6 7772	9 52.3
24	5 56 15.16	0 34.34	17 40 25.9	0 14.8	9.571 2560	6 8240	9 48.8
25	5 56 49.50	0 43.25	17 40 40.7	0 36.9	9.578 0800	6 8585	9 45.5
26	5 57 32.75	0 51.92	17 41 17.6	0 57.5	9.584 9385	6 8821	9 42.4
27	5 58 24.67	1 0.38	17 42 15.1	1 16.1	9.591 8206	6 8952	9 39.4
28	5 59 25.05	1 8.58	17 43 31.2	1 33.1	9.598 7158	6 8992	9 36.5
29	6 0 33.63	1 16.52	+17 45 4.3	1 48.1	9.605 6150	6 8946	9 33.8
30	6 1 50.15	1 24.22	17 46 52.4	2 1.6	9.612 5096	6 8827	9 31.2
31	6 3 14.37	1 31.67	17 48 54.0	2 13.3	9.619 3923	6 8639	9 28.7
Aug. 1	6 4 46.04	1 38.89	17 51 7.3	2 23.1	9.626 2562	6 8393	9 26.3
2	6 6 24.93	1 45.85	17 53 30.4	2 31.4	9.633 0955	6 8092	9 24.1
3	6 8 10.78	1 52.58	17 56 1.8	2 38.0	9.639 9047	6 7744	9 21.9
4	6 10 3.36	1 59.08	+17 58 39.8	2 43.1	9.646 6791	6 7357	9 19.9
5	6 12 2.44	2 5.37	18 1 22.9	2 46.4	9.653 4148	6 6934	9 18.0
6	6 14 7.81	2 11.41	18 4 9.3	2 48.4	9.660 1082	6 6480	9 16.2
7	6 16 19.22	2 17.28	18 6 57.7	2 48.8	9.666 7562	6 5999	9 14.5
8	6 18 36.50	2 22.93	18 9 46.5	2 47.7	9.673 3561	6 5494	9 12.9
9	6 20 59.43	2 28.40	18 12 34.2	2 45.1	9.679 9055	6 4971	9 11.3
10	6 23 27.83	2 33.70	+18 15 19.3	2 41.0	9.686 4026	6 4428	9 9.9
11	6 26 1.53	2 38.79	18 18 0.3	2 35.7	9.692 8454	6 3870	9 8.5
12	6 28 40.32	2 43.73	18 20 36.0	2 29.0	9.699 2324	6 3299	9 7.3
13	6 31 24.05	2 48.49	18 23 5.0	2 20.9	9.705 5623	6 2718	9 6.1
14	6 34 12.54	2 53.11	18 25 25.9	2 11.7	9.711 8341	6 2122	9 5.0
15	6 37 5.65	2 57.55	18 27 37.6	2 1.2	9.718 0463	6 1518	9 4.0
16	6 40 3.20	3 1.84	+18 29 38.8	1 49.5	9.724 1981	6 0904	9 3.0
17	6 43 5.04	3 5.98	18 31 28.3	1 36.5	9.730 2885	6 0285	9 2.1
18	6 46 11.02	3 9.97	18 33 4.8	1 22.4	9.736 3170	5 9660	9 1.3
19	6 49 20.99	3 13.82	18 34 27.2	1 7.4	9.742 2830	5 9030	9 0.6
20	6 52 34.81	3 17.51	18 35 34.6	0 51.3	9.748 1860	5 8400	8 59.9
21	6 55 52.32	3 21.06	18 36 25.9	0 34.2	9.754 0260	5 7766	8 59.2
22	6 59 13.38	3 24.47	+18 37 0.1	0 16.3	9.759 8026	5 7132	8 58.7
23	7 2 37.85	3 27.76	18 37 16.4	0 2.7	9.765 5158	5 6498	8 58.2
24	7 6 5.61	3 30.90	18 37 13.7	0 22.4	9.771 1656	5 5866	8 57.7
25	7 9 36.51	3 33.92	18 36 51.3	0 43.0	9.776 7522	5 5235	8 57.3
26	7 13 10.43	3 36.80	18 36 8.3	1 4.2	9.782 2757	5 4609	8 56.9
27	7 16 47.23	3 39.57	18 35 4.1	1 26.2	9.787 7366	5 3985	8 56.6
28	7 20 26.80	3 42.22	+18 33 37.9	1 48.7	9.793 1351	5 3368	8 56.4
29	7 24 9.02	3 44.74	18 31 49.2	2 12.0	9.798 4719	5 2753	8 56.1
30	7 27 53.76	3 47.15	18 29 37.2	2 35.8	9.803 7472	5 2148	8 55.9
31	7 31 40.91	3 49.44	18 27 1.4	3 0.0	9.808 9620	5 1546	8 55.8
Sept. 1	7 35 30.35	3 51.63	18 24 1.4	3 24.9	9.814 1166	5 0957	8 55.7
2	7 39 21.98		+18 20 36.5		9.819 2123		8 55.6

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Sept. 2	7 39 21.98	3 53.71	+18 20 36.5	3 50.0	9.819 2123	5 0371	8 55.6
3	7 43 15.69	3 55.70	18 16 46.5	4 15.7	9.824 2494	4 9796	8 55.6
4	7 47 11.39	3 57.58	18 12 30.8	4 41.8	9.829 2290	4 9229	8 55.6
5	7 51 8.97	3 59.38	18 7 49.0	5 8.2	9.834 1519	4 8673	8 55.6
6	7 55 8.35	4 1.10	18 2 40.8	5 35.0	9.839 0192	4 8125	8 55.7
7	7 59 9.45	4 2.72	17 57 5.8	6 2.0	9.843 8317	4 7583	8 55.8
8	8 3 12.17	4 4.27	+17 51 3.8	6 29.3	9.848 5900	4 7050	8 55.9
9	8 7 16.44	4 5.74	17 44 34.5	6 56.9	9.853 2950	4 6523	8 56.0
10	8 11 22.18	4 7.12	17 37 37.6	7 24.7	9.857 9473	4 6003	8 56.2
11	8 15 29.30	4 8.46	17 30 12.9	7 52.8	9.862 5476	4 5490	8 56.4
12	8 19 37.76	4 9.70	17 22 20.1	8 21.1	9.867 0966	4 4984	8 56.6
13	8 23 47.46	4 10.89	17 13 59.0	8 49.3	9.871 5950	4 4482	8 56.8
14	8 27 58.35	4 12.01	+17 5 9.7	9 17.8	9.876 0432	4 3989	8 57.0
15	8 32 10.36	4 13.05	16 55 51.9	9 46.3	9.880 4421	4 3500	8 57.3
16	8 36 23.41	4 14.04	16 46 5.6	10 15.0	9.884 7921	4 3016	8 57.6
17	8 40 37.45	4 14.96	16 35 50.6	10 43.5	9.889 0937	4 2537	8 57.9
18	8 44 52.41	4 15.83	16 25 7.1	11 12.1	9.893 3474	4 2062	8 58.2
19	8 49 8.24	4 16.61	16 13 55.0	11 40.5	9.897 5536	4 1593	8 58.5
20	8 53 24.85	4 17.35	+16 2 14.5	12 9.1	9.901 7129	4 1130	8 58.9
21	8 57 42.20	4 18.04	15 50 5.4	12 37.3	9.905 8259	4 0671	8 59.2
22	9 2 0.24	4 18.67	15 37 28.1	13 5.4	9.909 8930	4 0216	8 59.6
23	9 6 18.91	4 19.24	15 24 22.7	13 33.5	9.913 9146	3 9768	8 59.9
24	9 10 38.15	4 19.76	15 10 49.2	14 1.3	9.917 8914	3 9324	9 0.3
25	9 14 57.91	4 20.23	14 56 47.9	14 28.8	9.921 8238	3 8885	9 0.7
26	9 19 18.14	4 20.66	+14 42 19.1	14 56.1	9.925 7123	3 8452	9 1.1
27	9 23 38.80	4 21.05	14 27 23.0	15 23.0	9.929 5575	3 8026	9 1.5
28	9 27 59.85	4 21.38	14 12 0.0	15 49.7	9.933 3601	3 7604	9 1.9
29	9 32 21.23	4 21.68	13 56 10.3	16 16.0	9.937 1205	3 7189	9 2.3
30	9 36 42.91	4 21.94	13 39 54.3	16 41.9	9.940 8394	3 6779	9 2.8
Okt. 1	9 41 4.85	4 22.17	13 23 12.4	17 7.4	9.944 5173	3 6377	9 3.2
2	9 45 27.02	4 22.36	+13 6 5.0	17 32.6	9.948 1550	3 5983	9 3.6
3	9 49 49.38	4 22.52	12 48 32.4	17 57.5	9.951 7533	3 5594	9 4.0
4	9 54 11.90	4 22.67	12 30 34.9	18 21.8	9.955 3127	3 5213	9 4.5
5	9 58 34.57	4 22.79	12 12 13.1	18 45.9	9.958 8340	3 4839	9 4.9
6	10 2 57.36	4 22.89	11 53 27.2	19 9.4	9.962 3179	3 4469	9 5.4
7	10 7 20.25	4 22.98	11 34 17.8	19 32.6	9.965 7648	3 4107	9 5.8
8	10 11 43.23	4 23.06	+11 14 45.2	19 55.2	9.969 1755	3 3750	9 6.2
9	10 16 6.29	4 23.13	10 54 50.0	20 17.5	9.972 5505	3 3397	9 6.7
10	10 20 29.42	4 23.18	10 34 32.5	20 39.2	9.975 8902	3 3048	9 7.1
11	10 24 52.60	4 23.23	10 13 53.3	21 0.6	9.979 1950	3 2705	9 7.6
12	10 29 15.83	4 23.28	9 52 52.7	21 21.5	9.982 4655	3 2364	9 8.0
13	10 33 39.11		+ 9 31 31.2		9.985 7019		9 8.5

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1932	h m s	m s	° ′ ″	′ ″			h m
Okt. 13	10 33 39.11	4 23.33	+9 31 31.2	21 41.8	9.985 7019	3 2029	9 8.5
14	10 38 2.44	4 23.35	9 9 49.4	22 1.5	9.988 9048	3 1695	9 8.9
15	10 42 25.79	4 23.39	8 47 47.9	22 20.9	9.992 0743	3 1366	9 9.3
16	10 46 49.18	4 23.43	8 25 27.0	22 39.6	9.995 2109	3 1040	9 9.8
17	10 51 12.61	4 23.47	8 2 47.4	22 57.7	9.998 3149	3 0717	9 10.3
18	10 55 36.08	4 23.52	7 39 49.7	23 15.3	0.001 3866	3 0396	9 10.7
19	10 59 59.60	4 23.57	+7 16 34.4	23 32.3	0.004 4262	3 0079	9 11.1
20	11 4 23.17	4 23.61	6 53 2.1	23 48.7	0.007 4341	2 9765	9 11.6
21	11 8 46.78	4 23.67	6 29 13.4	24 4.4	0.010 4106	2 9454	9 12.1
22	11 13 10.45	4 23.74	6 5 9.0	24 19.6	0.013 3560	2 9143	9 12.5
23	11 17 34.19	4 23.81	5 40 49.4	24 34.1	0.016 2703	2 8838	9 13.0
24	11 21 58.00	4 23.88	5 16 15.3	24 48.0	0.019 1541	2 8533	9 13.4
25	11 26 21.88	4 23.98	+4 51 27.3	25 1.1	0.022 0074	2 8233	9 13.9
26	11 30 45.86	4 24.07	4 26 26.2	25 13.7	0.024 8307	2 7936	9 14.3
27	11 35 9.93	4 24.19	4 1 12.5	25 25.5	0.027 6243	2 7641	9 14.8
28	11 39 34.12	4 24.32	3 35 47.0	25 36.6	0.030 3884	2 7348	9 15.3
29	11 43 58.44	4 24.46	3 10 10.4	25 47.1	0.033 1232	2 7061	9 15.7
30	11 48 22.90	4 24.61	2 44 23.3	25 56.8	0.035 8293	2 6779	9 16.2
31	11 52 47.51	4 24.78	+2 18 26.5	26 5.8	0.038 5072	2 6501	9 16.7
Nov. 1	11 57 12.29	4 24.97	1 52 20.7	26 14.1	0.041 1573	2 6226	9 17.1
2	12 1 37.26	4 25.18	1 26 6.6	26 21.8	0.043 7799	2 5957	9 17.6
3	12 6 2.44	4 25.42	0 59 44.8	26 28.7	0.046 3756	2 5692	9 18.1
4	12 10 27.86	4 25.67	0 33 16.1	26 35.2	0.048 9448	2 5429	9 18.6
5	12 14 53.53	4 25.96	+0 6 40.9	26 40.8	0.051 4877	2 5172	9 19.1
6	12 19 19.49	4 26.26	−0 19 59.9	26 45.7	0.054 0049	2 4917	9 19.5
7	12 23 45.75	4 26.61	0 46 45.6	26 49.9	0.056 4966	2 4666	9 20.0
8	12 28 12.36	4 26.98	1 13 35.5	26 53.5	0.058 9632	2 4418	9 20.5
9	12 32 39.34	4 27.36	1 40 29.0	26 56.4	0.061 4050	2 4173	9 21.1
10	12 37 6.70	4 27.79	2 7 25.4	26 58.5	0.063 8223	2 3930	9 21.6
11	12 41 34.49	4 28.25	2 34 23.9	26 59.9	0.066 2153	2 3688	9 22.1
12	12 46 2.74	4 28.73	−3 1 23.8	27 0.7	0.068 5841	2 3450	9 22.6
13	12 50 31.47	4 29.24	3 28 24.5	27 0.7	0.070 9291	2 3213	9 23.1
14	12 55 0.71	4 29.78	3 55 25.2	26 59.9	0.073 2504	2 2978	9 23.7
15	12 59 30.49	4 30.37	4 22 25.1	26 58.5	0.075 5482	2 2745	9 24.3
16	13 4 0.86	4 30.96	4 49 23.6	26 56.3	0.077 8227	2 2514	9 24.8
17	13 8 31.82	4 31.59	5 16 19.9	26 53.4	0.080 0741	2 2284	9 25.4
18	13 13 3.41	4 32.25	−5 43 13.3	26 49.5	0.082 3025	2 2057	9 26.0
19	13 17 35.66	4 32.94	6 10 2.8	26 45.2	0.084 5082	2 1829	9 26.6
20	13 22 8.60	4 33.66	6 36 48.0	26 39.8	0.086 6911	2 1604	9 27.2
21	13 26 42.26	4 34.40	7 3 27.8	26 33.8	0.088 8515	2 1380	9 27.8
22	13 31 16.66	4 35.17	7 30 1.6	26 26.9	0.090 9895	2 1157	9 28.5
23	13 35 51.83		−7 56 28.5		0.093 1052		9 29.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
	h m s	m s	° ′ ″	′ ″			h m
1932							
Nov. 23	13 35 51.83	4 35.98	−7 56 28.5	26 19.2	0.093 1052	2 0935	9 29.1
24	13 40 27.81	4 36.79	8 22 47.7	26 10.8	0.095 1987	2 0715	9 29.8
25	13 45 4.60	4 37.65	8 48 58.5	26 1.6	0.097 2702	2 0498	9 30.4
26	13 49 42.25	4 38.51	9 15 0.1	25 51.5	0.099 3200	2 0281	9 31.1
27	13 54 20.76	4 39.41	9 40 51.6	25 40.6	0.101 3481	2 0067	9 31.8
28	13 59 0.17	4 40.31	10 6 32.2	25 29.0	0.103 3548	1 9857	9 32.6
29	14 3 40.48	4 41.25	−10 32 1.2	25 16.4	0.105 3405	1 9647	9 33.3
30	14 8 21.73	4 42.20	10 57 17.6	25 3.2	0.107 3052	1 9442	9 34.0
Dez. 1	14 13 3.93	4 43.19	11 22 20.8	24 49.1	0.109 2494	1 9240	9 34.8
2	14 17 47.12	4 44.18	11 47 9.9	24 34.2	0.111 1734	1 9041	9 35.6
3	14 22 31.30	4 45.20	12 11 44.1	24 18.5	0.113 0775	1 8846	9 36.4
4	14 27 16.50	4 46.26	12 36 2.6	24 2.1	0.114 9621	1 8652	9 37.2
5	14 32 2.76	4 47.31	−13 0 4.7	23 44.9	0.116 8273	1 8462	9 38.1
6	14 36 50.07	4 48.40	13 23 49.6	23 26.8	0.118 6735	1 8272	9 38.9
7	14 41 38.47	4 49.50	13 47 16.4	23 8.0	0.120 5007	1 8086	9 39.8
8	14 46 27.97	4 50.62	14 10 24.4	22 48.5	0.122 3093	1 7901	9 40.7
9	14 51 18.59	4 51.77	14 33 12.9	22 28.2	0.124 0994	1 7718	9 41.6
10	14 56 10.36	4 52.91	14 55 41.1	22 7.1	0.125 8712	1 7536	9 42.5
11	15 1 3.27	4 54.07	−15 17 48.2	21 45.0	0.127 6248	1 7358	9 43.5
12	15 5 57.34	4 55.25	15 39 33.2	21 22.4	0.129 3606	1 7180	9 44.4
13	15 10 52.59	4 56.44	16 0 55.6	20 58.9	0.131 0786	1 7003	9 45.4
14	15 15 49.03	4 57.62	16 21 54.5	20 34.6	0.132 7789	1 6828	9 46.4
15	15 20 46.65	4 58.82	16 42 29.1	20 9.6	0.134 4617	1 6654	9 47.5
16	15 25 45.47	5 0.02	17 2 38.7	19 43.8	0.136 1271	1 6481	9 48.5
17	15 30 45.49	5 1.22	−17 22 22.5	19 17.1	0.137 7752	1 6308	9 49.6
18	15 35 46.71	5 2.42	17 41 39.6	18 49.9	0.139 4060	1 6134	9 50.7
19	15 40 49.13	5 3.61	18 0 29.5	18 21.7	0.141 0194	1 5965	9 51.8
20	15 45 52.74	5 4.80	18 18 51.2	17 52.9	0.142 6159	1 5794	9 52.9
21	15 50 57.54	5 5.97	18 36 44.1	17 23.1	0.144 1953	1 5624	9 54.0
22	15 56 3.51	5 7.15	18 54 7.2	16 52.9	0.145 7577	1 5454	9 55.2
23	16 1 10.66	5 8.29	−19 11 0.1	16 21.8	0.147 3031	1 5288	9 56.4
24	16 6 18.95	5 9.42	19 27 21.9	15 50.0	0.148 8319	1 5120	9 57.6
25	16 11 28.37	5 10.52	19 43 11.9	15 17.5	0.150 3439	1 4953	9 58.8
26	16 16 38.89	5 11.61	19 58 29.4	14 44.4	0.151 8392	1 4789	10 0.0
27	16 21 50.50	5 12.66	20 13 13.8	14 10.6	0.153 3181	1 4625	10 1.3
28	16 27 3.16	5 13.69	20 27 24.4	13 36.1	0.154 7806	1 4464	10 2.6
29	16 32 16.85	5 14.68	−20 41 0.5	13 1.2	0.156 2270	1 4305	10 3.9
30	16 37 31.53	5 15.64	20 54 1.7	12 25.4	0.157 6575	1 4148	10 5.2
31	16 42 47.17	5 16.57	21 6 27.1	11 49.2	0.159 0723	1 3994	10 6.5
32	16 48 3.74		−21 18 16.3		0.160 4717		10 7.9

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	19 9 49.44	3 20.82	−23 27 33.0	5 23.1	0.377 0720	46	12 35.7
	1	19 13 10.26	3 20.71	23 22 9.9	5 39.2	0.377 0766	15	12 35.1
	2	19 16 30.97	3 20.60	23 16 30.7	5 55.0	0.377 0781	15	12 34.5
	3	19 19 51.57	3 20.47	23 10 35.7	6 10.9	0.377 0766	45	12 33.9
	4	19 23 12.04	3 20.32	23 4 24.8	6 26.7	0.377 0721	76	12 33.3
	5	19 26 32.36	3 20.15	22 57 58.1	6 42.5	0.377 0645	106	12 32.7
	6	19 29 52.51	3 19.97	−22 51 15.6	6 58.1	0.377 0539	137	12 32.1
	7	19 33 12.48	3 19.78	22 44 17.5	7 13.7	0.377 0402	166	12 31.5
	8	19 36 32.26	3 19.55	22 37 3.8	7 29.2	0.377 0236	195	12 30.8
	9	19 39 51.81	3 19.34	22 29 34.6	7 44.5	0.377 0041	225	12 30.2
	10	19 43 11.15	3 19.09	22 21 50.1	7 59.8	0.376 9816	253	12 29.6
	11	19 46 30.24	3 18.84	22 13 50.3	8 15.0	0.376 9563	281	12 29.0
	12	19 49 49.08	3 18.57	−22 5 35.3	8 29.9	0.376 9282	307	12 28.4
	13	19 53 7.65	3 18.29	21 57 5.4	8 44.8	0.376 8975	334	12 27.7
	14	19 56 25.94	3 18.01	21 48 20.6	8 59.7	0.376 8641	358	12 27.1
	15	19 59 43.95	3 17.70	21 39 20.9	9 14.3	0.376 8283	383	12 26.4
	16	20 3 1.65	3 17.40	21 30 6.6	9 28.8	0.376 7900	406	12 25.8
	17	20 6 19.05	3 17.06	21 20 37.8	9 43.2	0.376 7494	428	12 25.1
	18	20 9 36.11	3 16.74	−21 10 54.6	9 57.5	0.376 7066	449	12 24.5
	19	20 12 52.85	3 16.39	21 0 57.1	10 11.5	0.376 6617	471	12 23.8
	20	20 16 9.24	3 16.05	20 50 45.6	10 25.5	0.376 6146	489	12 23.1
	21	20 19 25.29	3 15.69	20 40 20.1	10 39.2	0.376 5657	506	12 22.4
	22	20 22 40.98	3 15.33	20 29 40.9	10 52.9	0.376 5151	524	12 21.8
	23	20 25 56.31	3 14.97	20 18 48.0	11 6.4	0.376 4627	541	12 21.1
	24	20 29 11.28	3 14.59	−20 7 41.6	11 19.7	0.376 4086	558	12 20.4
	25	20 32 25.87	3 14.22	19 56 21.9	11 33.1	0.376 3528	576	12 19.7
	26	20 35 40.09	3 13.84	19 44 48.8	11 46.1	0.376 2952	594	12 19.0
	27	20 38 53.93	3 13.46	19 33 2.7	11 59.0	0.376 2358	610	12 18.2
	28	20 42 7.39	3 13.07	19 21 3.7	12 11.7	0.376 1748	627	12 17.5
	29	20 45 20.46	3 12.68	19 8 52.0	12 24.3	0.376 1121	643	12 16.8
	30	20 48 33.14	3 12.28	−18 56 27.7	12 36.8	0.376 0478	659	12 16.1
	31	20 51 45.42	3 11.88	18 43 50.9	12 49.0	0.375 9819	676	12 15.3
Febr.	1	20 54 57.30	3 11.48	18 31 1.9	13 1.0	0.375 9143	693	12 14.6
	2	20 58 8.78	3 11.06	18 18 0.9	13 12.9	0.375 8450	710	12 13.8
	3	21 1 19.84	3 10.64	18 4 48.0	13 24.6	0.375 7740	729	12 13.0
	4	21 4 30.48	3 10.23	17 51 23.4	13 36.0	0.375 7011	747	12 12.3
	5	21 7 40.71	3 9.81	−17 37 47.4	13 47.4	0.375 6264	765	12 11.5
	6	21 10 50.52	3 9.38	17 24 0.0	13 58.5	0.375 5499	782	12 10.7
	7	21 13 59.90	3 8.95	17 10 1.5	14 9.5	0.375 4717	799	12 10.0
	8	21 17 8.85	3 8.53	16 55 52.0	14 20.1	0.375 3918	816	12 9.2
	9	21 20 17.38	3 8.09	16 41 31.9	14 30.6	0.375 3102	832	12 8.4
	10	21 23 25.47		−16 27 1.3		0.375 2270		12 7.5

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	21 23 25.47	3 7.65	−16 27 1.3	14 40.9	0.375 2270	848	12 7.5
11	21 26 33.12	3 7.22	16 12 20.4	14 50.9	0.375 1422	862	12 6.7
12	21 29 40.34	3 6.78	15 57 29.5	15 0.8	0.375 0560	877	12 5.9
13	21 32 47.12	3 6.34	15 42 28.7	15 10.5	0.374 9683	890	12 5.1
14	21 35 53.46	3 5.91	15 27 18.2	15 19.9	0.374 8793	903	12 4.2
15	21 38 59.37	3 5.47	15 11 58.3	15 29.2	0.374 7890	916	12 3.4
16	21 42 4.84	3 5.03	−14 56 29.1	15 38.2	0.374 6974	929	12 2.5
17	21 45 9.87	3 4.61	14 40 50.9	15 47.2	0.374 6045	939	12 1.7
18	21 48 14.48	3 4.17	14 25 3.7	15 55.7	0.374 5106	949	12 0.8
19	21 51 18.65	3 3.76	14 9 8.0	16 4.3	0.374 4157	960	11 59.9
20	21 54 22.41	3 3.33	13 53 3.7	16 12.4	0.374 3197	970	11 59.0
21	21 57 25.74	3 2.92	13 36 51.3	16 20.5	0.374 2227	978	11 58.1
22	22 0 28.66	3 2.52	−13 20 30.8	16 28.4	0.374 1249	986	11 57.2
23	22 3 31.18	3 2.11	13 4 2.4	16 36.1	0.374 0263	994	11 56.3
24	22 6 33.29	3 1.70	12 47 26.3	16 43.5	0.373 9269	1003	11 55.4
25	22 9 34.99	3 1.32	12 30 42.8	16 50.8	0.373 8266	1012	11 54.5
26	22 12 36.31	3 0.93	12 13 52.0	16 57.8	0.373 7254	1022	11 53.6
27	22 15 37.24	3 0.55	11 56 54.2	17 4.8	0.373 6232	1032	11 52.6
28	22 18 37.79	3 0.17	−11 39 49.4	17 11.4	0.373 5200	1043	11 51.7
29	22 21 37.96	2 59.79	11 22 38.0	17 18.0	0.373 4157	1053	11 50.8
März 1	22 24 37.75	2 59.43	11 5 20.0	17 24.2	0.373 3104	1065	11 49.8
2	22 27 37.18	2 59.07	10 47 55.8	17 30.2	0.373 2039	1077	11 48.9
3	22 30 36.25	2 58.71	10 30 25.6	17 36.0	0.373 0962	1089	11 47.9
4	22 33 34.96	2 58.35	10 12 49.6	17 41.7	0.372 9873	1103	11 47.0
5	22 36 33.31	2 58.01	−9 55 7.9	17 47.1	0.372 8770	1115	11 46.0
6	22 39 31.32	2 57.65	9 37 20.8	17 52.2	0.372 7655	1129	11 45.0
7	22 42 28.97	2 57.32	9 19 28.6	17 57.2	0.372 6526	1143	11 44.0
8	22 45 26.29	2 56.98	9 1 31.4	18 1.9	0.372 5383	1155	11 43.0
9	22 48 23.27	2 56.65	8 43 29.5	18 6.5	0.372 4228	1169	11 42.0
10	22 51 19.92	2 56.32	8 25 23.0	18 10.7	0.372 3059	1181	11 41.0
11	22 54 16.24	2 56.00	−8 7 12.3	18 14.8	0.372 1878	1193	11 40.0
12	22 57 12.24	2 55.70	7 48 57.5	18 18.7	0.372 0685	1206	11 39.0
13	23 0 7.94	2 55.39	7 30 38.8	18 22.4	0.371 9479	1216	11 38.0
14	23 3 3.33	2 55.09	7 12 16.4	18 25.8	0.371 8263	1229	11 37.0
15	23 5 58.42	2 54.79	6 53 50.6	18 29.1	0.371 7034	1239	11 35.9
16	23 8 53.21	2 54.51	6 35 21.5	18 32.1	0.371 5795	1249	11 34.9
17	23 11 47.72	2 54.23	−6 16 49.4	18 35.0	0.371 4546	1258	11 33.9
18	23 14 41.95	2 53.96	5 58 14.4	18 37.6	0.371 3288	1268	11 32.8
19	23 17 35.91	2 53.70	5 39 36.8	18 40.1	0.371 2020	1278	11 31.8
20	23 20 29.61	2 53.45	5 20 56.7	18 42.3	0.371 0742	1288	11 30.8
21	23 23 23.06	2 53.20	5 2 14.4	18 44.5	0.370 9454	1297	11 29.7
22	23 26 16.26		−4 43 29.9		0.370 8157		11 28.6

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
März 22	23 26 16.26	2 52.98	−4 43 29.9	18 46.3	0.370 8157	1306	11 28.6
23	23 29 9.24	2 52.75	4 24 43.6	18 48.1	0.370 6851	1316	11 27.5
24	23 32 1.99	2 52.54	4 5 55.5	18 49.6	0.370 5535	1326	11 26.5
25	23 34 54.53	2 52.33	3 47 5.9	18 51.0	0.370 4209	1337	11 25.4
26	23 37 46.86	2 52.15	3 28 14.9	18 52.1	0.370 2872	1347	11 24.4
27	23 40 39.01	2 51.96	3 9 22.8	18 53.0	0.370 1525	1361	11 23.3
28	23 43 30.97	2 51.78	−2 50 29.8	18 53.9	0.370 0164	1373	11 22.2
29	23 46 22.75	2 51.60	2 31 35.9	18 54.5	0.369 8791	1388	11 21.1
30	23 49 14.35	2 51.44	2 12 41.4	18 54.9	0.369 7403	1402	11 20.1
31	23 52 5.79	2 51.29	1 53 46.5	18 55.0	0.369 6001	1419	11 19.0
April 1	23 54 57.08	2 51.14	1 34 51.5	18 55.1	0.369 4582	1435	11 17.9
2	23 57 48.22	2 51.00	1 15 56.4	18 54.9	0.369 3147	1452	11 16.8
3	0 0 39.22	2 50.87	−0 57 1.5	18 54.5	0.369 1695	1469	11 15.7
4	0 3 30.09	2 50.75	0 38 7.0	18 53.9	0.369 0226	1487	11 14.6
5	0 6 20.84	2 50.62	0 19 13.1	18 53.0	0.368 8739	1505	11 13.5
6	0 9 11.46	2 50.51	−0 0 20.1	18 52.1	0.368 7234	1525	11 12.4
7	0 12 1.97	2 50.39	+0 18 32.0	18 50.8	0.368 5709	1543	11 11.3
8	0 14 52.36	2 50.30	0 37 22.8	18 49.4	0.368 4166	1561	11 10.2
9	0 17 42.66	2 50.20	+0 56 12.2	18 47.8	0.368 2605	1581	11 9.1
10	0 20 32.86	2 50.12	1 15 0.0	18 45.9	0.368 1024	1600	11 8.0
11	0 23 22.98	2 50.02	1 33 45.9	18 44.1	0.367 9424	1619	11 6.9
12	0 26 13.00	2 49.96	1 52 30.0	18 41.8	0.367 7805	1637	11 5.8
13	0 29 2.96	2 49.90	2 11 11.8	18 39.6	0.367 6168	1656	11 4.7
14	0 31 52.86	2 49.84	2 29 51.4	18 37.1	0.367 4512	1675	11 3.6
15	0 34 42.70	2 49.79	+2 48 28.5	18 34.5	0.367 2837	1693	11 2.5
16	0 37 32.49	2 49.75	3 7 3.0	18 31.6	0.367 1144	1711	11 1.3
17	0 40 22.24	2 49.71	3 25 34.6	18 28.6	0.366 9433	1730	11 0.2
18	0 43 11.95	2 49.69	3 44 3.2	18 25.5	0.366 7703	1748	10 59.1
19	0 46 1.64	2 49.68	4 2 28.7	18 22.1	0.366 5955	1766	10 58.0
20	0 48 51.32	2 49.67	4 20 50.8	18 18.5	0.366 4189	1785	10 56.9
21	0 51 40.99	2 49.66	+4 39 9.3	18 14.9	0.366 2404	1805	10 55.8
22	0 54 30.65	2 49.68	4 57 24.2	18 11.0	0.366 0599	1825	10 54.6
23	0 57 20.33	2 49.71	5 15 35.2	18 7.2	0.365 8774	1846	10 53.5
24	1 0 10.04	2 49.73	5 33 42.4	18 3.0	0.365 6928	1868	10 52.4
25	1 2 59.77	2 49.77	5 51 45.4	17 58.7	0.365 5060	1892	10 51.3
26	1 5 49.54	2 49.81	6 9 44.1	17 54.3	0.365 3168	1918	10 50.2
27	1 8 39.35	2 49.87	+6 27 38.4	17 49.7	0.365 1250	1945	10 49.1
28	1 11 29.22	2 49.92	6 45 28.1	17 44.8	0.364 9305	1971	10 48.0
29	1 14 19.14	2 49.98	7 3 12.9	17 39.9	0.364 7334	1999	10 46.9
30	1 17 9.12	2 50.04	7 20 52.8	17 34.7	0.364 5335	2028	10 45.8
Mai 1	1 19 59.16	2 50.12	7 38 27.5	17 29.4	0.364 3307	2058	10 44.7
2	1 22 49.28		+7 55 56.9		0.364 1249		10 43.5

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932		h m s	m s	° ′ ″	′ ″			h m
Mai	2	1 22 49.28	2 50.18	+ 7 55 56.9	17 24.0	0.364 1249	2088	10 43.5
	3	1 25 39.46	2 50.26	8 13 20.9	17 18.2	0.363 9161	2118	10 42.4
	4	1 28 29.72	2 50.36	8 30 39.1	17 12.4	0.363 7043	2152	10 41.3
	5	1 31 20.08	2 50.44	8 47 51.5	17 6.5	0.363 4891	2184	10 40.2
	6	1 34 10.52	2 50.54	9 4 58.0	17 0.3	0.363 2707	2218	10 39.1
	7	1 37 1.06	2 50.63	9 21 58.3	16 54.0	0.363 0489	2250	10 38.0
	8	1 39 51.69	2 50.73	+ 9 38 52.3	16 47.4	0.362 8239	2284	10 36.9
	9	1 42 42.42	2 50.83	9 55 39.7	16 40.9	0.362 5955	2318	10 35.8
	10	1 45 33.25	2 50.93	10 12 20.6	16 34.1	0.362 3637	2353	10 34.7
	11	1 48 24.18	2 51.05	10 28 54.7	16 27.1	0.362 1284	2387	10 33.6
	12	1 51 15.23	2 51.17	10 45 21.8	16 20.0	0.361 8897	2421	10 32.6
	13	1 54 6.40	2 51.28	11 1 41.8	16 12.8	0.361 6476	2457	10 31.5
	14	1 56 57.68	2 51.41	+11 17 54.6	16 5.4	0.361 4019	2490	10 30.4
	15	1 59 49.09	2 51.54	11 34 0.0	15 57.9	0.361 1529	2525	10 29.3
	16	2 2 40.63	2 51.67	11 49 57.9	15 50.3	0.360 9004	2559	10 28.2
	17	2 5 32.30	2 51.80	12 5 48.2	15 42.5	0.360 6445	2594	10 27.1
	18	2 8 24.10	2 51.94	12 21 30.7	15 34.6	0.360 3851	2631	10 26.1
	19	2 11 16.04	2 52.10	12 37 5.3	15 26.6	0.360 1220	2667	10 25.0
	20	2 14 8.14	2 52.24	+12 52 31.9	15 18.4	0.359 8553	2703	10 23.9
	21	2 17 0.38	2 52.41	13 7 50.3	15 10.2	0.359 5850	2742	10 22.9
	22	2 19 52.79	2 52.57	13 23 0.5	15 1.7	0.359 3108	2780	10 21.8
	23	2 22 45.36	2 52.74	13 38 2.2	14 53.3	0.359 0328	2822	10 20.7
	24	2 25 38.10	2 52.91	13 52 55.5	14 44.6	0.358 7506	2864	10 19.7
	25	2 28 31.01	2 53.08	14 7 40.1	14 35.8	0.358 4642	2907	10 18.6
	26	2 31 24.09	2 53.24	+14 22 15.9	14 26.8	0.358 1735	2952	10 17.6
	27	2 34 17.33	2 53.42	14 36 42.7	14 17.8	0.357 8783	2998	10 16.5
	28	2 37 10.75	2 53.59	14 51 0.5	14 8.6	0.357 5785	3046	10 15.4
	29	2 40 4.34	2 53.76	15 5 9.1	13 59.3	0.357 2739	3094	10 14.4
	30	2 42 58.10	2 53.94	15 19 8.4	13 49.8	0.356 9645	3145	10 13.3
	31	2 45 52.04	2 54.10	15 32 58.2	13 40.4	0.356 6500	3195	10 12.3
Juni	1	2 48 46.14	2 54.28	+15 46 38.6	13 30.6	0.356 3305	3246	10 11.3
	2	2 51 40.42	2 54.44	16 0 9.2	13 20.8	0.356 0059	3297	10 10.2
	3	2 54 34.86	2 54.61	16 13 30.0	13 10.7	0.355 6762	3351	10 9.2
	4	2 57 29.47	2 54.78	16 26 40.7	13 0.7	0.355 3411	3405	10 8.2
	5	3 0 24.25	2 54.94	16 39 41.4	12 50.5	0.355 0006	3458	10 7.1
	6	3 3 19.19	2 55.10	16 52 31.9	12 40.2	0.354 6548	3513	10 6.1
	7	3 6 14.29	2 55.25	+17 5 12.1	12 29.8	0.354 3035	3568	10 5.1
	8	3 9 9.54	2 55.40	17 17 41.9	12 19.2	0.353 9467	3623	10 4.1
	9	3 12 4.94	2 55.56	17 30 1.1	12 8.5	0.353 5844	3680	10 3.1
	10	3 15 0.50	2 55.70	17 42 9.6	11 57.9	0.353 2164	3736	10 2.1
	11	3 17 56.20	2 55.86	17 54 7.5	11 47.1	0.352 8428	3792	10 1.0
	12	3 20 52.06		+18 5 54.6		0.352 4636		10 0.0

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1932	h m s	m s	° ′ ″	′ ″			h m
Juni 12	3 20 52.06	2 56.00	+18 5 54.6	11 36.1	0.352 4636	3848	10 0.0
13	3 23 48.06	2 56.15	18 17 30.7	11 25.1	0.352 0788	3905	9 59.0
14	3 26 44.21	2 56.29	18 28 55.8	11 14.3	0.351 6883	3962	9 58.0
15	3 29 40.50	2 56.43	18 40 10.1	11 3.0	0.351 2921	4020	9 57.0
16	3 32 36.93	2 56.56	18 51 13.1	10 51.8	0.350 8901	4077	9 56.0
17	3 35 33.49	2 56.71	19 2 4.9	10 40.4	0.350 4824	4136	9 55.0
18	3 38 30.20	2 56.85	+19 12 45.3	10 29.0	0.350 0688	4196	9 54.0
19	3 41 27.05	2 56.98	19 23 14.3	10 17.5	0.349 6492	4258	9 53.0
20	3 44 24.03	2 57.11	19 33 31.8	10 6.0	0.349 2234	4320	9 52.0
21	3 47 21.14	2 57.23	19 43 37.8	9 54.5	0.348 7914	4384	9 51.1
22	3 50 18.37	2 57.37	19 53 32.3	9 42.8	0.348 3530	4451	9 50.1
23	3 53 15.74	2 57.49	20 3 15.1	9 30.9	0.347 9079	4517	9 49.1
24	3 56 13.23	2 57.59	+20 12 46.0	9 19.2	0.347 4562	4587	9 48.1
25	3 59 10.82	2 57.71	20 22 5.2	9 7.2	0.346 9975	4658	9 47.1
26	4 2 8.53	2 57.80	20 31 12.4	8 55.4	0.346 5317	4728	9 46.1
27	4 5 6.33	2 57.90	20 40 7.8	8 43.4	0.346 0589	4802	9 45.1
28	4 8 4.23	2 57.98	20 48 51.2	8 31.2	0.345 5787	4875	9 44.2
29	4 11 2.21	2 58.07	20 57 22.4	8 19.0	0.345 0912	4949	9 43.2
30	4 14 0.28	2 58.13	+21 5 41.4	8 6.8	0.344 5963	5024	9 42.2
Juli 1	4 16 58.41	2 58.19	21 13 48.2	7 54.5	0.344 0939	5102	9 41.2
2	4 19 56.60	2 58.25	21 21 42.7	7 42.3	0.343 5837	5180	9 40.3
3	4 22 54.85	2 58.29	21 29 25.0	7 29.9	0.343 0657	5260	9 39.3
4	4 25 53.14	2 58.33	21 36 54.9	7 17.5	0.342 5397	5341	9 38.3
5	4 28 51.47	2 58.35	21 44 12.4	7 5.0	0.342 0056	5422	9 37.3
6	4 31 49.82	2 58.37	+21 51 17.4	6 52.5	0.341 4634	5503	9 36.4
7	4 34 48.19	2 58.38	21 58 9.9	6 40.1	0.340 9131	5584	9 35.4
8	4 37 46.57	2 58.37	22 4 50.0	6 27.5	0.340 3547	5665	9 34.5
9	4 40 44.94	2 58.36	22 11 17.5	6 14.9	0.339 7882	5746	9 33.5
10	4 43 43.30	2 58.33	22 17 32.4	6 2.3	0.339 2136	5829	9 32.5
11	4 46 41.63	2 58.31	22 23 34.7	5 49.9	0.338 6307	5911	9 31.5
12	4 49 39.94	2 58.29	+22 29 24.6	5 37.2	0.338 0396	5993	9 30.6
13	4 52 38.23	2 58.23	22 35 1.8	5 24.7	0.337 4403	6077	9 29.6
14	4 55 36.46	2 58.19	22 40 26.5	5 12.0	0.336 8326	6161	9 28.6
15	4 58 34.65	2 58.13	22 45 38.5	4 59.4	0.336 2165	6246	9 27.6
16	5 1 32.78	2 58.06	22 50 37.9	4 46.9	0.335 5919	6332	9 26.7
17	5 4 30.84	2 58.00	22 55 24.8	4 34.2	0.334 9587	6418	9 25.7
18	5 7 28.84	2 57.92	+22 59 59.0	4 21.6	0.334 3169	6508	9 24.7
19	5 10 26.76	2 57.82	23 4 20.6	4 9.0	0.333 6661	6599	9 23.8
20	5 13 24.58	2 57.74	23 8 29.6	3 56.4	0.333 0062	6689	9 22.8
21	5 16 22.32	2 57.63	23 12 26.0	3 43.9	0.332 3373	6783	9 21.8
22	5 19 19.95	2 57.53	23 16 9.9	3 31.3	0.331 6590	6878	9 20.8
23	5 22 17.48		+23 19 41.2		0.330 9712		9 19.8

Tag		0h Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1932		h m s	m s	° ′ ″	′ ″			h m
Juli	23	5 22 17.48	2 57.39	+23 19 41.2	3 18.7	0.330 9712	6975	9 19.8
	24	5 25 14.87	2 57.27	23 22 59.9	3 6.3	0.330 2737	7073	9 18.9
	25	5 28 12.14	2 57.12	23 26 6.2	2 53.7	0.329 5664	7173	9 17.9
	26	5 31 9.26	2 56.98	23 28 59.9	2 41.2	0.328 8491	7275	9 16.9
	27	5 34 6.24	2 56.80	23 31 41.1	2 28.7	0.328 1216	7376	9 15.9
	28	5 37 3.04	2 56.63	23 34 9.8	2 16.2	0.327 3840	7480	9 14.9
	29	5 39 59.67	2 56.44	+23 36 26.0	2 3.9	0.326 6360	7585	9 13.9
	30	5 42 56.11	2 56.23	23 38 29.9	1 51.5	0.325 8775	7691	9 12.9
	31	5 45 52.34	2 56.02	23 40 21.4	1 39.1	0.325 1084	7799	9 11.9
Aug.	1	5 48 48.36	2 55.78	23 42 0.5	1 26.9	0.324 3285	7909	9 10.9
	2	5 51 44.14	2 55.56	23 43 27.4	1 14.6	0.323 5376	8018	9 9.8
	3	5 54 39.70	2 55.30	23 44 42.0	1 2.5	0.322 7358	8128	9 8.8
	4	5 57 35.00	2 55.03	+23 45 44.5	0 50.4	0.321 9230	8238	9 7.8
	5	6 0 30.03	2 54.77	23 46 34.9	0 38.3	0.321 0992	8349	9 6.8
	6	6 3 24.80	2 54.47	23 47 13.2	0 26.4	0.320 2643	8460	9 5.7
	7	6 6 19.27	2 54.18	23 47 39.6	0 14.5	0.319 4183	8571	9 4.7
	8	6 9 13.45	2 53.88	23 47 54.1	0 2.7	0.318 5612	8682	9 3.7
	9	6 12 7.33	2 53.56	23 47 56.8	0 9.1	0.317 6930	8794	9 2.6
	10	6 15 0.89	2 53.24	+23 47 47.7	0 20.7	0.316 8136	8907	9 1.6
	11	6 17 54.13	2 52.92	23 47 27.0	0 32.5	0.315 9229	9021	9 0.5
	12	6 20 47.05	2 52.58	23 46 54.5	0 43.9	0.315 0208	9136	8 59.5
	13	6 23 39.63	2 52.25	23 46 10.6	0 55.4	0.314 1072	9255	8 58.4
	14	6 26 31.88	2 51.89	23 45 15.2	1 6.8	0.313 1817	9372	8 57.3
	15	6 29 23.77	2 51.55	23 44 8.4	1 18.2	0.312 2445	9490	8 56.2
	16	6 32 15.32	2 51.19	+23 42 50.2	1 29.4	0.311 2955	9611	8 55.2
	17	6 35 6.51	2 50.81	23 41 20.8	1 40.6	0.310 3344	9733	8 54.1
	18	6 37 57.32	2 50.42	23 39 40.2	1 51.6	0.309 3611	9855	8 53.0
	19	6 40 47.74	2 50.04	23 37 48.6	2 2.6	0.308 3756	9981	8 51.9
	20	6 43 37.78	2 49.64	23 35 46.0	2 13.5	0.307 3775	1 0107	8 50.7
	21	6 46 27.42	2 49.24	23 33 32.5	2 24.2	0.306 3668	1 0236	8 49.6
	22	6 49 16.66	2 48.83	+23 31 8.3	2 34.9	0.305 3432	1 0367	8 48.5
	23	6 52 5.49	2 48.41	23 28 33.4	2 45.5	0.304 3065	1 0499	8 47.3
	24	6 54 53.90	2 47.97	23 25 47.9	2 56.0	0.303 2566	1 0632	8 46.2
	25	6 57 41.87	2 47.53	23 22 51.9	3 6.4	0.302 1934	1 0770	8 45.1
	26	7 0 29.40	2 47.09	23 19 45.5	3 16.6	0.301 1164	1 0907	8 43.9
	27	7 3 16.49	2 46.62	23 16 28.9	3 26.8	0.300 0257	1 1045	8 42.8
	28	7 6 3.11	2 46.16	+23 13 2.1	3 36.9	0.298 9212	1 1185	8 41.6
	29	7 8 49.27	2 45.67	23 9 25.2	3 46.7	0.297 8027	1 1327	8 40.5
	30	7 11 34.94	2 45.18	23 5 38.5	3 56.5	0.296 6700	1 1470	8 39.3
	31	7 14 20.12	2 44.68	23 1 42.0	4 6.2	0.295 5230	1 1614	8 38.1
Sept.	1	7 17 4.80	2 44.17	22 57 35.8	4 15.7	0.294 3616	1 1757	8 36.9
	2	7 19 48.97		+22 53 20.1		0.293 1859		8 35.7

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Sept. 2	7 19 48.97	2 43.65	+22 53 20.1	4 25.1	0.293 1859	1 1902	8 35.7
3	7 22 32.62	2 43.13	22 48 55.0	4 34.5	0.291 9957	1 2048	8 34.4
4	7 25 15.75	2 42.59	22 44 20.5	4 43.5	0.290 7909	1 2193	8 33.2
5	7 27 58.34	2 42.06	22 39 37.0	4 52.5	0.289 5716	1 2340	8 32.0
6	7 30 40.40	2 41.52	22 34 44.5	5 1.6	0.288 3376	1 2486	8 30.7
7	7 33 21.92	2 40.96	22 29 42.9	5 10.2	0.287 0890	1 2633	8 29.5
8	7 36 2.88	2 40.42	+22 24 32.7	5 18.9	0.285 8257	1 2781	8 28.2
9	7 38 43.30	2 39.86	22 19 13.8	5 27.3	0.284 5476	1 2931	8 27.0
10	7 41 23.16	2 39.30	22 13 46.5	5 35.7	0.283 2545	1 3080	8 25.7
11	7 44 2.46	2 38.74	22 8 10.8	5 44.0	0.281 9465	1 3232	8 24.4
12	7 46 41.20	2 38.17	22 2 26.8	5 52.1	0.280 6233	1 3385	8 23.1
13	7 49 19.37	2 37.60	21 56 34.7	6 0.2	0.279 2848	1 3540	8 21.8
14	7 51 56.97	2 37.03	+21 50 34.5	6 8.0	0.277 9308	1 3698	8 20.4
15	7 54 34.00	2 36.46	21 44 26.5	6 15.7	0.276 5610	1 3856	8 19.1
16	7 57 10.46	2 35.88	21 38 10.8	6 23.3	0.275 1754	1 4017	8 17.8
17	7 59 46.34	2 35.29	21 31 47.5	6 30.8	0.273 7737	1 4180	8 16.4
18	8 2 21.63	2 34.71	21 25 16.7	6 38.0	0.272 3557	1 4346	8 15.1
19	8 4 56.34	2 34.12	21 18 38.7	6 45.3	0.270 9211	1 4512	8 13.7
20	8 7 30.46	2 33.53	+21 11 53.4	6 52.3	0.269 4699	1 4682	8 12.3
21	8 10 3.99	2 32.91	21 5 1.1	6 59.2	0.268 0017	1 4851	8 10.9
22	8 12 36.90	2 32.30	20 58 1.9	7 5.9	0.266 5166	1 5024	8 9.5
23	8 15 9.20	2 31.68	20 50 56.0	7 12.6	0.265 0142	1 5198	8 8.1
24	8 17 40.88	2 31.06	20 43 43.4	7 19.0	0.263 4944	1 5374	8 6.7
25	8 20 11.94	2 30.44	20 36 24.4	7 25.3	0.261 9570	1 5553	8 5.3
26	8 22 42.38	2 29.80	+20 28 59.1	7 31.5	0.260 4017	1 5733	8 3.9
27	8 25 12.18	2 29.16	20 21 27.6	7 37.4	0.258 8284	1 5915	8 2.4
28	8 27 41.34	2 28.51	20 13 50.2	7 43.2	0.257 2369	1 6096	8 1.0
29	8 30 9.85	2 27.86	20 6 7.0	7 48.8	0.255 6273	1 6280	7 59.5
30	8 32 37.71	2 27.19	19 58 18.2	7 54.3	0.253 9993	1 6464	7 58.0
Okt. 1	8 35 4.90	2 26.53	19 50 23.9	7 59.6	0.252 3529	1 6648	7 56.5
2	8 37 31.43	2 25.86	+19 42 24.3	8 4.7	0.250 6881	1 6834	7 55.0
3	8 39 57.29	2 25.18	19 34 19.6	8 9.6	0.249 0047	1 7020	7 53.5
4	8 42 22.47	2 24.51	19 26 10.0	8 14.4	0.247 3027	1 7207	7 52.0
5	8 44 46.98	2 23.83	19 17 55.6	8 19.1	0.245 5820	1 7394	7 50.4
6	8 47 10.81	2 23.15	19 9 36.5	8 23.6	0.243 8426	1 7581	7 48.9
7	8 49 33.96	2 22.47	19 1 12.9	8 28.1	0.242 0845	1 7771	7 47.3
8	8 51 56.43	2 21.79	+18 52 44.8	8 32.4	0.240 3074	1 7960	7 45.8
9	8 54 18.22	2 21.11	18 44 12.4	8 36.5	0.238 5114	1 8152	7 44.2
10	8 56 39.33	2 20.42	18 35 35.9	8 40.4	0.236 6962	1 8345	7 42.6
11	8 58 59.75	2 19.73	18 26 55.5	8 44.1	0.234 8617	1 8541	7 41.0
12	9 1 19.48	2 19.05	18 18 11.4	8 47.9	0.233 0076	1 8739	7 39.4
13	9 3 38.53		+18 9 23.5		0.231 1337		7 37.7

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Okt. 13	9 3 38.53	2 18.36	+18 9 23.5	8 51.3	0.231 1337	1 8938	7 37.7
14	9 5 56.89	2 17.67	18 0 32.2	8 54.6	0.229 2399	1 9140	7 36.1
15	9 8 14.56	2 16.97	17 51 37.6	8 57.8	0.227 3259	1 9343	7 34.4
16	9 10 31.53	2 16.27	17 42 39.8	9 0.9	0.225 3916	1 9548	7 32.8
17	9 12 47.80	2 15.57	17 33 38.9	9 3.7	0.223 4368	1 9757	7 31.1
18	9 15 3.37	2 14.86	17 24 35.2	9 6.5	0.221 4611	1 9967	7 29.4
19	9 17 18.23	2 14.14	+17 15 28.7	9 9.0	0.219 4644	2 0180	7 27.7
20	9 19 32.37	2 13.44	17 6 19.7	9 11.4	0.217 4464	2 0394	7 26.0
21	9 21 45.81	2 12.71	16 57 8.3	9 13.6	0.215 4070	2 0612	7 24.3
22	9 23 58.52	2 11.98	16 47 54.7	9 15.7	0.213 3458	2 0831	7 22.6
23	9 26 10.50	2 11.24	16 38 39.0	9 17.4	0.211 2627	2 1053	7 20.8
24	9 28 21.74	2 10.51	16 29 21.6	9 19.2	0.209 1574	2 1274	7 19.1
25	9 30 32.25	2 9.75	+16 20 2.4	9 20.6	0.207 0300	2 1499	7 17.3
26	9 32 42.00	2 8.99	16 10 41.8	9 21.9	0.204 8801	2 1725	7 15.5
27	9 34 50.99	2 8.23	16 1 19.9	9 23.0	0.202 7076	2 1952	7 13.7
28	9 36 59.22	2 7.45	15 51 56.9	9 24.0	0.200 5124	2 2181	7 11.9
29	9 39 6.67	2 6.67	15 42 32.9	9 24.7	0.198 2943	2 2409	7 10.1
30	9 41 13.34	2 5.88	15 33 8.2	9 25.3	0.196 0534	2 2639	7 8.3
31	9 43 19.22	2 5.10	+15 23 42.9	9 25.5	0.193 7895	2 2868	7 6.4
Nov. 1	9 45 24.32	2 4.29	15 14 17.4	9 25.8	0.191 5027	2 3098	7 4.6
2	9 47 28.61	2 3.48	15 4 51.6	9 25.8	0.189 1929	2 3328	7 2.7
3	9 49 32.09	2 2.67	14 55 25.8	9 25.7	0.186 8601	2 3559	7 0.8
4	9 51 34.76	2 1.86	14 46 0.1	9 25.3	0.184 5042	2 3790	6 58.9
5	9 53 36.62	2 1.04	14 36 34.8	9 24.9	0.182 1252	2 4022	6 57.0
6	9 55 37.66	2 0.22	+14 27 9.9	9 24.3	0.179 7230	2 4257	6 55.1
7	9 57 37.88	1 59.39	14 17 45.6	9 23.6	0.177 2973	2 4493	6 53.1
8	9 59 37.27	1 58.56	14 8 22.0	9 22.6	0.174 8480	2 4731	6 51.2
9	10 1 35.83	1 57.73	13 58 59.4	9 21.7	0.172 3749	2 4970	6 49.2
10	10 3 33.56	1 56.89	13 49 37.7	9 20.3	0.169 8779	2 5211	6 47.2
11	10 5 30.45	1 56.03	13 40 17.4	9 19.0	0.167 3568	2 5453	6 45.2
12	10 7 26.48	1 55.17	+13 30 58.4	9 17.3	0.164 8115	2 5697	6 43.2
13	10 9 21.65	1 54.30	13 21 41.1	9 15.5	0.162 2418	2 5944	6 41.2
14	10 11 15.95	1 53.43	13 12 25.6	9 13.5	0.159 6474	2 6193	6 39.1
15	10 13 9.38	1 52.54	13 3 12.1	9 11.3	0.157 0281	2 6443	6 37.1
16	10 15 1.92	1 51.64	12 54 0.8	9 9.0	0.154 3838	2 6698	6 35.0
17	10 16 53.56	1 50.74	12 44 51.8	9 6.5	0.151 7140	2 6952	6 32.9
18	10 18 44.30	1 49.81	+12 35 45.3	9 3.7	0.149 0188	2 7209	6 30.9
19	10 20 34.11	1 48.88	12 26 41.6	9 0.8	0.146 2979	2 7467	6 28.8
20	10 22 22.99	1 47.94	12 17 40.8	8 57.7	0.143 5512	2 7727	6 26.6
21	10 24 10.93	1 46.97	12 8 43.1	8 54.3	0.140 7785	2 7988	6 24.5
22	10 25 57.90	1 45.99	11 59 48.8	8 50.7	0.137 9797	2 8250	6 22.3
23	10 27 43.89		+11 50 58.1		0.135 1547		6 20.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	m s	° ′ ″	′ ″			h m
Nov. 23	10 27 43.89	1 45.01	+11 50 58.1	8 46.8	0.135 1547	2 8514	6 20.1
24	10 29 28.90	1 43.99	11 42 11.3	8 42.8	0.132 3033	2 8778	6 17.9
25	10 31 12.89	1 42.96	11 33 28.5	8 38.5	0.129 4255	2 9042	6 15.7
26	10 32 55.85	1 41.91	11 24 50.0	8 34.0	0.126 5213	2 9305	6 13.5
27	10 34 37.76	1 40.85	11 16 16.0	8 29.4	0.123 5908	2 9568	6 11.3
28	10 36 18.61	1 39.77	11 7 46.6	8 24.4	0.120 6340	2 9829	6 9.0
29	10 37 58.38	1 38.67	+10 59 22.2	8 19.3	0.117 6511	3 0090	6 6.7
30	10 39 37.05	1 37.56	10 51 2.9	8 13.9	0.114 6421	3 0349	6 4.4
Dez. 1	10 41 14.61	1 36.43	10 42 49.0	8 8.4	0.111 6072	3 0607	6 2.1
2	10 42 51.04	1 35.29	10 34 40.6	8 2.6	0.108 5465	3 0865	5 59.8
3	10 44 26.33	1 34.14	10 26 38.0	7 56.7	0.105 4600	3 1121	5 57.4
4	10 46 0.47	1 32.96	10 18 41.3	7 50.6	0.102 3479	3 1377	5 55.0
5	10 47 33.43	1 31.77	+10 10 50.7	7 44.3	0.099 2102	3 1634	5 52.6
6	10 49 5.20	1 30.56	10 3 6.4	7 37.8	0.096 0468	3 1890	5 50.2
7	10 50 35.76	1 29.35	9 55 28.6	7 31.1	0.092 8578	3 2147	5 47.8
8	10 52 5.11	1 28.09	9 47 57.5	7 24.2	0.089 6431	3 2402	5 45.3
9	10 53 33.20	1 26.84	9 40 33.3	7 17.0	0.086 4029	3 2656	5 42.9
10	10 55 0.04	1 25.55	9 33 16.3	7 9.7	0.083 1373	3 2909	5 40.4
11	10 56 25.59	1 24.25	+ 9 26 6.6	7 2.1	0.079 8464	3 3163	5 37.8
12	10 57 49.84	1 22.91	9 19 4.5	6 54.3	0.076 5301	3 3416	5 35.3
13	10 59 12.75	1 21.56	9 12 10.2	6 46.2	0.073 1885	3 3669	5 32.7
14	11 0 34.31	1 20.18	9 5 24.0	6 37.9	0.069 8216	3 3919	5 30.2
15	11 1 54.49	1 18.77	8 58 46.1	6 29.5	0.066 4297	3 4170	5 27.6
16	11 3 13.26	1 17.33	8 52 16.6	6 20.6	0.063 0127	3 4419	5 24.9
17	11 4 30.59	1 15.87	+ 8 45 56.0	6 11.5	0.059 5708	3 4666	5 22.3
18	11 5 46.46	1 14.37	8 39 44.5	6 2.2	0.056 1042	3 4911	5 19.6
19	11 7 0.83	1 12.84	8 33 42.3	5 52.6	0.052 6131	3 5153	5 16.9
20	11 8 13.67	1 11.27	8 27 49.7	5 42.7	0.049 0978	3 5391	5 14.2
21	11 9 24.94	1 9.68	8 22 7.0	5 32.5	0.045 5587	3 5626	5 11.4
22	11 10 34.62	1 8.05	8 16 34.5	5 21.9	0.041 9961	3 5857	5 8.6
23	11 11 42.67	1 6.38	+ 8 11 12.6	5 11.2	0.038 4104	3 6081	5 5.8
24	11 12 49.05	1 4.66	8 6 1.4	5 0.2	0.034 8023	3 6300	5 3.0
25	11 13 53.71	1 2.92	8 1 1.2	4 48.8	0.031 1723	3 6510	5 0.1
26	11 14 56.63	1 1.15	7 56 12.4	4 37.3	0.027 5213	3 6715	4 57.2
27	11 15 57.78	0 59.32	7 51 35.1	4 25.4	0.023 8498	3 6910	4 54.3
28	11 16 57.10	0 57.48	7 47 9.7	4 13.3	0.020 1588	3 7096	4 51.3
29	11 17 54.58	0 55.59	+ 7 42 56.4	4 1.0	0.016 4492	3 7274	4 48.3
30	11 18 50.17	0 53.66	7 38 55.4	3 48.4	0.012 7218	3 7443	4 45.3
31	11 19 43.83	0 51.72	7 35 7.0	3 35.4	0.008 9775	3 7601	4 42.3
32	11 20 35.55		+ 7 31 31.6		0.005 2174		4 39.2

Tag	0^h Welt-Zeit: Scheinbare Rektaszension		0^h Welt-Zeit: Scheinbare Deklination		0^h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Jan. 0	9 38 15.60	15.99	+15 2 14.9	1 34.0	0.659 3317	1 0174	3 3.9
1	9 37 59.61	16.69	15 3 48.9	1 37.2	0.658 3143	9987	2 59.7
2	9 37 42.92	17.37	15 5 26.1	1 40.4	0.657 3156	9793	2 55.5
3	9 37 25.55	18.04	15 7 6.5	1 43.5	0.656 3363	9595	2 51.2
4	9 37 7.51	18.71	15 8 50.0	1 46.6	0.655 3768	9389	2 47.0
5	9 36 48.80	19.38	15 10 36.6	1 49.6	0.654 4379	9178	2 42.7
6	9 36 29.42	20.02	+15 12 26.2	1 52.5	0.653 5201	8961	2 38.5
7	9 36 9.40	20.64	15 14 18.7	1 55.3	0.652 6240	8739	2 34.3
8	9 35 48.76	21.27	15 16 14.0	1 58.1	0.651 7501	8509	2 30.0
9	9 35 27.49	21.87	15 18 12.1	2 0.8	0.650 8992	8275	2 25.7
10	9 35 5.62	22.46	15 20 12.9	2 3.4	0.650 0717	8037	2 21.4
11	9 34 43.16	23.04	15 22 16.3	2 5.8	0.649 2680	7794	2 17.1
12	9 34 20.12	23.59	+15 24 22.1	2 8.2	0.648 4886	7544	2 12.8
13	9 33 56.53	24.14	15 26 30.3	2 10.6	0.647 7342	7291	2 8.5
14	9 33 32.39	24.67	15 28 40.9	2 12.7	0.647 0051	7033	2 4.1
15	9 33 7.72	25.17	15 30 53.6	2 14.8	0.646 3018	6770	1 59.8
16	9 32 42.55	25.67	15 33 8.4	2 16.9	0.645 6248	6505	1 55.4
17	9 32 16.88	26.15	15 35 25.3	2 18.7	0.644 9743	6234	1 51.1
18	9 31 50.73	26.61	+15 37 44.0	2 20.4	0.644 3509	5960	1 46.7
19	9 31 24.12	27.03	15 40 4.4	2 22.2	0.643 7549	5683	1 42.3
20	9 30 57.09	27.46	15 42 26.6	2 23.6	0.643 1866	5402	1 38.0
21	9 30 29.63	27.87	15 44 50.2	2 25.1	0.642 6464	5117	1 33.6
22	9 30 1.76	28.25	15 47 15.3	2 26.5	0.642 1347	4830	1 29.2
23	9 29 33.51	28.61	15 49 41.8	2 27.7	0.641 6517	4539	1 24.8
24	9 29 4.90	28.96	+15 52 9.5	2 28.9	0.641 1978	4245	1 20.4
25	9 28 35.94	29.29	15 54 38.4	2 29.9	0.640 7733	3948	1 16.0
26	9 28 6.65	29.59	15 57 8.3	2 30.8	0.640 3785	3650	1 11.5
27	9 27 37.06	29.87	15 59 39.1	2 31.6	0.640 0135	3348	1 7.1
28	9 27 7.19	30.14	16 2 10.7	2 32.4	0.639 6787	3044	1 2.7
29	9 26 37.05	30.40	16 4 43.1	2 32.9	0.639 3743	2737	0 58.3
30	9 26 6.65	30.61	+16 7 16.0	2 33.4	0.639 1006	2427	0 53.8
31	9 25 36.04	30.81	16 9 49.4	2 33.9	0.638 8579	2116	0 49.4
Febr. 1	9 25 5.23	30.98	16 12 23.3	2 34.0	0.638 6463	1802	0 44.9
2	9 24 34.25	31.15	16 14 57.3	2 34.2	0.638 4661	1489	0 40.5
3	9 24 3.10	31.28	16 17 31.5	2 34.2	0.638 3172	1171	0 36.0
4	9 23 31.82	31.38	16 20 5.7	2 34.0	0.638 2001	855	0 31.6
5	9 23 0.44	31.47	+16 22 39.7	2 33.9	0.638 1146	537	0 27.1
6	9 22 28.97	31.52	16 25 13.6	2 33.5	0.638 0609	219	0 22.7
7	9 21 57.45	31.54	16 27 47.1	2 33.1	0.638 0390	100	0 18.2
8	9 21 25.91	31.56	16 30 20.2	2 32.4	0.638 0490	418	0 13.8
9	9 20 54.35	31.53	16 32 52.6	2 31.8	0.638 0908	737	0 9.3
10	9 20 22.82		+16 35 24.4		0.638 1645		0 4.9

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1932	h m s	s	° ′ ″	′ ″			h m
Febr. 10	9 20 22.82	31.50	+16 35 24.4	2 31.0	0.638 1645	1053	0 4.9
11	9 19 51.32	31.44	16 37 55.4	2 30.0	0.638 2698	1371	{ 0 0.4 { 23 56.0
12	9 19 19.88	31.34	16 40 25.4	2 29.0	0.638 4069	1684	23 51.5
13	9 18 48.54	31.23	16 42 54.4	2 27.9	0.638 5753	1998	23 47.1
14	9 18 17.31	31.09	16 45 22.3	2 26.6	0.638 7751	2310	23 42.6
15	9 17 46.22	30.93	16 47 48.9	2 25.2	0.639 0061	2619	23 38.2
16	9 17 15.29	30.75	+16 50 14.1	2 23.8	0.639 2680	2925	23 33.7
17	9 16 44.54	30.55	16 52 37.9	2 22.4	0.639 5605	3231	23 29.3
18	9 16 13.99	30.32	16 55 0.3	2 20.6	0.639 8836	3533	23 24.9
19	9 15 43.67	30.07	16 57 20.9	2 18.9	0.640 2369	3832	23 20.4
20	9 15 13.60	29.81	16 59 39.8	2 17.1	0.640 6201	4128	23 16.0
21	9 14 43.79	29.52	17 1 56.9	2 15.3	0.641 0329	4423	23 11.6
22	9 14 14.27	29.21	+17 4 12.2	2 13.3	0.641 4752	4714	23 7.2
23	9 13 45.06	28.87	17 6 25.5	2 11.3	0.641 9466	5002	23 2.8
24	9 13 16.19	28.53	17 8 36.8	2 9.1	0.642 4468	5287	22 58.4
25	9 12 47.66	28.16	17 10 45.9	2 7.0	0.642 9755	5568	22 54.0
26	9 12 19.50	27.78	17 12 52.9	2 4.8	0.643 5323	5847	22 49.6
27	9 11 51.72	27.36	17 14 57.7	2 2.4	0.644 1170	6120	22 45.2
28	9 11 24.36	26.94	+17 17 0.1	2 0.0	0.644 7290	6392	22 40.8
29	9 10 57.42	26.50	17 19 0.1	1 57.6	0.645 3682	6658	22 36.4
März 1	9 10 30.92	26.04	17 20 57.7	1 55.0	0.646 0340	6922	22 32.1
2	9 10 4.88	25.56	17 22 52.7	1 52.5	0.646 7262	7180	22 27.7
3	9 9 39.32	25.06	17 24 45.2	1 49.8	0.647 4442	7435	22 23.4
4	9 9 14.26	24.55	17 26 35.0	1 47.2	0.648 1877	7685	22 19.0
5	9 8 49.71	24.00	+17 28 22.2	1 44.3	0.648 9562	7930	22 14.7
6	9 8 25.71	23.46	17 30 6.5	1 41.5	0.649 7492	8171	22 10.4
7	9 8 2.25	22.88	17 31 48.0	1 38.6	0.650 5663	8406	22 6.1
8	9 7 39.37	22.31	17 33 26.6	1 35.7	0.651 4069	8635	22 1.8
9	9 7 17.06	21.71	17 35 2.3	1 32.8	0.652 2704	8860	21 57.5
10	9 6 55.35	21.10	17 36 35.1	1 29.7	0.653 1564	9078	21 53.2
11	9 6 34.25	20.48	+17 38 4.8	1 26.7	0.654 0642	9292	21 48.9
12	9 6 13.77	19.84	17 39 31.5	1 23.6	0.654 9934	9499	21 44.6
13	9 5 53.93	19.20	17 40 55.1	1 20.4	0.655 9433	9701	21 40.4
14	9 5 34.73	18.53	17 42 15.5	1 17.3	0.656 9134	9897	21 36.2
15	9 5 16.20	17.87	17 43 32.8	1 14.2	0.657 9031	1 0087	21 32.0
16	9 4 58.33	17.20	17 44 47.0	1 11.0	0.658 9118	1 0272	21 27.7
17	9 4 41.13	16.51	+17 45 58.0	1 7.8	0.659 9390	1 0450	21 23.5
18	9 4 24.62	15.81	17 47 5.8	1 4.5	0.660 9840	1 0624	21 19.3
19	9 4 8.81	15.12	17 48 10.3	1 1.2	0.662 0464	1 0791	21 15.1
20	9 3 53.69	14.42	17 49 11.5	0 58.0	0.663 1255	1 0953	21 11.0
21	9 3 39.27	13.69	17 50 9.5	0 54.8	0.664 2208	1 1110	21 6.8
22	9 3 25.58		+17 51 4.3		0.665 3318		21 2.6

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
März 22	9 3 25.58	12.97	+17 51 4.3	0 51.5	0.665 3318	1 1261	21 2.6
23	9 3 12.61	12.25	17 51 55.8	0 48.2	0.666 4579	1 1406	20 58.5
24	9 3 0.36	11.52	17 52 44.0	0 45.0	0.667 5985	1 1547	20 54.4
25	9 2 48.84	10.79	17 53 29.0	0 41.6	0.668 7532	1 1682	20 50.3
26	9 2 38.05	10.05	17 54 10.6	0 38.4	0.669 9214	1 1812	20 46.2
27	9 2 28.00	9.31	17 54 49.0	0 35.2	0.671 1026	1 1938	20 42.1
28	9 2 18.69	8.56	+17 55 24.2	0 31.8	0.672 2964	1 2059	20 38.0
29	9 2 10.13	7.81	17 55 56.0	0 28.5	0.673 5023	1 2174	20 34.0
30	9 2 2.32	7.05	17 56 24.5	0 25.2	0.674 7197	1 2283	20 29.9
31	9 1 55.27	6.31	17 56 49.7	0 21.8	0.675 9480	1 2388	20 25.9
April 1	9 1 48.96	5.54	17 57 11.5	0 18.6	0.677 1868	1 2486	20 21.8
2	9 1 43.42	4.76	17 57 30.1	0 15.2	0.678 4354	1 2580	20 17.8
3	9 1 38.66	4.01	+17 57 45.3	0 11.8	0.679 6934	1 2669	20 13.8
4	9 1 34.65	3.23	17 57 57.1	0 8.6	0.680 9603	1 2752	20 9.8
5	9 1 31.42	2.47	17 58 5.7	0 5.3	0.682 2355	1 2829	20 5.8
6	9 1 28.95	1.71	17 58 11.0	0 2.0	0.683 5184	1 2903	20 1.9
7	9 1 27.24	0.93	17 58 13.0	0 1.4	0.684 8087	1 2969	19 57.9
8	9 1 26.31	0.17	17 58 11.6	0 4.6	0.686 1056	1 3031	19 54.0
9	9 1 26.14	0.59	+17 58 7.0	0 7.9	0.687 4087	1 3089	19 50.1
10	9 1 26.73	1.35	17 57 59.1	0 11.2	0.688 7176	1 3142	19 46.2
11	9 1 28.08	2.12	17 57 47.9	0 14.4	0.690 0318	1 3187	19 42.3
12	9 1 30.20	2.88	17 57 33.5	0 17.7	0.691 3505	1 3230	19 38.4
13	9 1 33.08	3.63	17 57 15.8	0 20.9	0.692 6735	1 3267	19 34.5
14	9 1 36.71	4.38	17 56 54.9	0 24.2	0.694 0002	1 3299	19 30.7
15	9 1 41.09	5.13	+17 56 30.7	0 27.4	0.695 3301	1 3328	19 26.8
16	9 1 46.22	5.87	17 56 3.3	0 30.5	0.696 6629	1 3351	19 23.0
17	9 1 52.09	6.60	17 55 32.8	0 33.6	0.697 9980	1 3372	19 19.1
18	9 1 58.69	7.34	17 54 59.2	0 36.8	0.699 3352	1 3387	19 15.3
19	9 2 6.03	8.06	17 54 22.4	0 39.8	0.700 6739	1 3400	19 11.5
20	9 2 14.09	8.80	17 53 42.6	0 43.0	0.702 0139	1 3408	19 7.7
21	9 2 22.89	9.50	+17 52 59.6	0 46.0	0.703 3547	1 3412	19 4.0
22	9 2 32.39	10.22	17 52 13.6	0 49.1	0.704 6959	1 3414	19 0.2
23	9 2 42.61	10.92	17 51 24.5	0 52.2	0.706 0373	1 3411	18 56.5
24	9 2 53.53	11.62	17 50 32.3	0 55.2	0.707 3784	1 3405	18 52.7
25	9 3 5.15	12.33	17 49 37.1	0 58.1	0.708 7189	1 3396	18 49.0
26	9 3 17.48	13.01	17 48 39.0	1 1.2	0.710 0585	1 3383	18 45.3
27	9 3 30.49	13.71	+17 47 37.8	1 4.1	0.711 3968	1 3367	18 41.6
28	9 3 44.20	14.38	17 46 33.7	1 7.1	0.712 7335	1 3348	18 37.9
29	9 3 58.58	15.06	17 45 26.6	1 10.1	0.714 0683	1 3325	18 34.2
30	9 4 13.64	15.73	17 44 16.5	1 13.0	0.715 4008	1 3299	18 30.5
Mai 1	9 4 29.37	16.41	17 43 3.5	1 15.9	0.716 7307	1 3270	18 26.8
2	9 4 45.78		+17 41 47.6		0.718 0577		18 23.2

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Mai 2	9 4 45.78	17.06	+17 41 47.6	1 18.9	0.718 0577	1 3237	18 23.2
3	9 5 2.84	17.72	17 40 28.7	1 21.7	0.719 3814	1 3202	18 19.5
4	9 5 20.56	18.38	17 39 7.0	1 24.7	0.720 7016	1 3162	18 15.9
5	9 5 38.94	19.02	17 37 42.3	1 27.5	0.722 0178	1 3119	18 12.3
6	9 5 57.96	19.65	17 36 14.8	1 30.3	0.723 3297	1 3073	18 8.7
7	9 6 17.61	20.28	17 34 44.5	1 33.1	0.724 6370	1 3025	18 5.1
8	9 6 37.89	20.90	+17 33 11.4	1 36.0	0.725 9395	1 2973	18 1.5
9	9 6 58.79	21.51	17 31 35.4	1 38.9	0.727 2368	1 2918	17 57.9
10	9 7 20.30	22.13	17 29 56.5	1 41.5	0.728 5286	1 2861	17 54.4
11	9 7 42.43	22.72	17 28 15.0	1 44.3	0.729 8147	1 2802	17 50.8
12	9 8 5.15	23.31	17 26 30.7	1 47.0	0.731 0949	1 2740	17 47.3
13	9 8 28.46	23.89	17 24 43.7	1 49.7	0.732 3689	1 2675	17 43.7
14	9 8 52.35	24.46	+17 22 54.0	1 52.3	0.733 6364	1 2607	17 40.2
15	9 9 16.81	25.04	17 21 1.7	1 55.0	0.734 8971	1 2538	17 36.7
16	9 9 41.85	25.60	17 19 6.7	1 57.6	0.736 1509	1 2468	17 33.2
17	9 10 7.45	26.14	17 17 9.1	2 0.3	0.737 3977	1 2394	17 29.7
18	9 10 33.59	26.68	17 15 8.8	2 2.8	0.738 6371	1 2319	17 26.2
19	9 11 0.27	27.21	17 13 6.0	2 5.4	0.739 8690	1 2243	17 22.7
20	9 11 27.48	27.75	+17 11 0.6	2 8.0	0.741 0933	1 2164	17 19.2
21	9 11 55.23	28.27	17 8 52.6	2 10.4	0.742 3097	1 2084	17 15.8
22	9 12 23.50	28.79	17 6 42.2	2 13.0	0.743 5181	1 2003	17 12.3
23	9 12 52.29	29.29	17 4 29.2	2 15.4	0.744 7184	1 1921	17 8.8
24	9 13 21.58	29.79	17 2 13.8	2 17.9	0.745 9105	1 1835	17 5.4
25	9 13 51.37	30.28	16 59 55.9	2 20.4	0.747 0940	1 1749	17 2.0
26	9 14 21.65	30.78	+16 57 35.5	2 22.8	0.748 2689	1 1660	16 58.5
27	9 14 52.43	31.26	16 55 12.7	2 25.2	0.749 4349	1 1571	16 55.1
28	9 15 23.69	31.73	16 52 47.5	2 27.7	0.750 5920	1 1481	16 51.7
29	9 15 55.42	32.20	16 50 19.8	2 30.1	0.751 7401	1 1386	16 48.3
30	9 16 27.62	32.66	16 47 49.7	2 32.5	0.752 8787	1 1292	16 44.9
31	9 17 0.28	33.13	16 45 17.2	2 35.0	0.754 0079	1 1195	16 41.5
Juni 1	9 17 33.41	33.57	+16 42 42.2	2 37.2	0.755 1274	1 1097	16 38.1
2	9 18 6.98	34.01	16 40 5.0	2 39.6	0.756 2371	1 0997	16 34.8
3	9 18 40.99	34.44	16 37 25.4	2 41.8	0.757 3368	1 0896	16 31.4
4	9 19 15.43	34.87	16 34 43.6	2 44.2	0.758 4264	1 0794	16 28.1
5	9 19 50.30	35.29	16 31 59.4	2 46.4	0.759 5058	1 0688	16 24.7
6	9 20 25.59	35.70	16 29 13.0	2 48.8	0.760 5746	1 0583	16 21.4
7	9 21 1.29	36.10	+16 26 24.2	2 50.9	0.761 6329	1 0477	16 18.0
8	9 21 37.39	36.51	16 23 33.3	2 53.2	0.762 6806	1 0367	16 14.7
9	9 22 13.90	36.89	16 20 40.1	2 55.3	0.763 7173	1 0259	16 11.4
10	9 22 50.79	37.27	16 17 44.8	2 57.6	0.764 7432	1 0148	16 8.1
11	9 23 28.06	37.65	16 14 47.2	2 59.7	0.765 7580	1 0038	16 4.8
12	9 24 5.71		+16 11 47.5		0.766 7618		16 1.5

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Juni 12	9 24 5.71	38.01	+16 11 47.5	3 1.9	0.766 7618	9924	16 1.5
13	9 24 43.72	38.37	16 8 45.6	3 3.9	0.767 7542	9811	15 58.2
14	9 25 22.09	38.73	16 5 41.7	3 5.9	0.768 7353	9697	15 54.9
15	9 26 0.82	39.07	16 2 35.8	3 8.0	0.769 7050	9583	15 51.6
16	9 26 39.89	39.41	15 59 27.8	3 10.1	0.770 6633	9468	15 48.3
17	9 27 19.30	39.74	15 56 17.7	3 12.1	0.771 6101	9353	15 45.0
18	9 27 59.04	40.07	+15 53 5.6	3 14.1	0.772 5454	9235	15 41.7
19	9 28 39.11	40.39	15 49 51.5	3 16.1	0.773 4689	9119	15 38.5
20	9 29 19.50	40.70	15 46 35.4	3 18.0	0.774 3808	9001	15 35.2
21	9 30 0.20	41.02	15 43 17.4	3 19.9	0.775 2809	8883	15 32.0
22	9 30 41.22	41.31	15 39 57.5	3 21.9	0.776 1692	8765	15 28.7
23	9 31 22.53	41.61	15 36 35.6	3 23.9	0.777 0457	8645	15 25.5
24	9 32 4.14	41.91	+15 33 11.7	3 25.7	0.777 9102	8524	15 22.2
25	9 32 46.05	42.19	15 29 46.0	3 27.7	0.778 7626	8403	15 19.0
26	9 33 28.24	42.48	15 26 18.3	3 29.5	0.779 6029	8281	15 15.8
27	9 34 10.72	42.75	15 22 48.8	3 31.3	0.780 4310	8159	15 12.6
28	9 34 53.47	43.03	15 19 17.5	3 33.2	0.781 2469	8036	15 9.3
29	9 35 36.50	43.29	15 15 44.3	3 35.1	0.782 0505	7911	15 6.1
30	9 36 19.79	43.54	+15 12 9.2	3 36.8	0.782 8416	7786	15 2.9
Juli 1	9 37 3.33	43.80	15 8 32.4	3 38.6	0.783 6202	7659	14 59.7
2	9 37 47.13	44.06	15 4 53.8	3 40.4	0.784 3861	7532	14 56.5
3	9 38 31.19	44.28	15 1 13.4	3 42.2	0.785 1393	7406	14 53.3
4	9 39 15.47	44.52	14 57 31.2	3 43.8	0.785 8799	7276	14 50.1
5	9 39 59.99	44.75	14 53 47.4	3 45.5	0.786 6075	7148	14 46.9
6	9 40 44.74	44.98	+14 50 1.9	3 47.2	0.787 3223	7018	14 43.7
7	9 41 29.72	45.19	14 46 14.7	3 48.8	0.788 0241	6889	14 40.6
8	9 42 14.91	45.39	14 42 25.9	3 50.4	0.788 7130	6758	14 37.4
9	9 43 0.30	45.60	14 38 35.5	3 52.0	0.789 3888	6627	14 34.2
10	9 43 45.90	45.81	14 34 43.5	3 53.6	0.790 0515	6496	14 31.0
11	9 44 31.71	45.99	14 30 49.9	3 55.1	0.790 7011	6365	14 27.8
12	9 45 17.70	46.18	+14 26 54.8	3 56.6	0.791 3376	6233	14 24.7
13	9 46 3.88	46.35	14 22 58.2	3 58.2	0.791 9609	6103	14 21.5
14	9 46 50.23	46.53	14 19 0.0	3 59.6	0.792 5712	5971	14 18.3
15	9 47 36.76	46.70	14 15 0.4	4 1.0	0.793 1683	5840	14 15.2
16	9 48 23.46	46.87	14 10 59.4	4 2.5	0.793 7523	5707	14 12.0
17	9 49 10.33	47.04	14 6 56.9	4 3.9	0.794 3230	5575	14 8.9
18	9 49 57.37	47.18	+14 2 53.0	4 5.3	0.794 8805	5442	14 5.7
19	9 50 44.55	47.34	13 58 47.7	4 6.6	0.795 4247	5309	14 2.6
20	9 51 31.89	47.48	13 54 41.1	4 7.9	0.795 9556	5177	13 59.5
21	9 52 19.37	47.63	13 50 33.2	4 9.3	0.796 4733	5045	13 56.3
22	9 53 7.00	47.77	13 46 23.9	4 10.6	0.796 9778	4911	13 53.2
23	9 53 54.77		+13 42 13.3		0.797 4689		13 50.0

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932		h m s	s	° ′ ″	′ ″			h m
Juli	23	9 53 54.77	47.91	+13 42 13.3	4 11.9	0.797 4689	4778	13 50.0
	24	9 54 42.68	48.03	13 38 1.4	4 13.3	0.797 9467	4642	13 46.9
	25	9 55 30.71	48.15	13 33 48.1	4 14.5	0.798 4109	4507	13 43.8
	26	9 56 18.86	48.28	13 29 33.6	4 15.7	0.798 8616	4372	13 40.6
	27	9 57 7.14	48.41	13 25 17.9	4 17.0	0.799 2988	4236	13 37.5
	28	9 57 55.55	48.51	13 21 0.9	4 18.1	0.799 7224	4100	13 34.4
	29	9 58 44.06	48.62	+13 16 42.8	4 19.3	0.800 1324	3964	13 31.2
	30	9 59 32.68	48.72	13 12 23.5	4 20.5	0.800 5288	3826	13 28.1
	31	10 0 21.40	48.82	13 8 3.0	4 21.5	0.800 9114	3689	13 25.0
Aug.	1	10 1 10.22	48.90	13 3 41.5	4 22.6	0.801 2803	3551	13 21.9
	2	10 1 59.12	49.00	12 59 18.9	4 23.7	0.801 6354	3413	13 18.8
	3	10 2 48.12	49.08	12 54 55.2	4 24.7	0.801 9767	3274	13 15.6
	4	10 3 37.20	49.16	+12 50 30.5	4 25.8	0.802 3041	3135	13 12.5
	5	10 4 26.36	49.22	12 46 4.7	4 26.7	0.802 6176	2997	13 9.4
	6	10 5 15.58	49.29	12 41 38.0	4 27.6	0.802 9173	2857	13 6.3
	7	10 6 4.87	49.35	12 37 10.4	4 28.6	0.803 2030	2719	13 3.2
	8	10 6 54.22	49.41	12 32 41.8	4 29.4	0.803 4749	2579	13 0.1
	9	10 7 43.63	49.46	12 28 12.4	4 30.2	0.803 7328	2439	12 56.9
	10	10 8 33.09	49.51	+12 23 42.2	4 31.2	0.803 9767	2301	12 53.8
	11	10 9 22.60	49.55	12 19 11.0	4 31.8	0.804 2068	2161	12 50.7
	12	10 10 12.15	49.59	12 14 39.2	4 32.6	0.804 4229	2023	12 47.6
	13	10 11 1.74	49.62	12 10 6.6	4 33.4	0.804 6252	1885	12 44.5
	14	10 11 51.36	49.65	12 5 33.2	4 34.2	0.804 8137	1747	12 41.4
	15	10 12 41.01	49.68	12 0 59.0	4 34.8	0.804 9884	1607	12 38.3
	16	10 13 30.69	49.69	+11 56 24.2	4 35.5	0.805 1491	1469	12 35.2
	17	10 14 20.38	49.72	11 51 48.7	4 36.2	0.805 2960	1330	12 32.1
	18	10 15 10.10	49.74	11 47 12.5	4 36.8	0.805 4290	1190	12 29.0
	19	10 15 59.84	49.75	11 42 35.7	4 37.4	0.805 5480	1051	12 25.9
	20	10 16 49.59	49.76	11 37 58.3	4 38.0	0.805 6531	911	12 22.8
	21	10 17 39.35	49.76	11 33 20.3	4 38.5	0.805 7442	771	12 19.6
	22	10 18 29.11	49.75	+11 28 41.8	4 39.1	0.805 8213	633	12 16.5
	23	10 19 18.86	49.76	11 24 2.7	4 39.7	0.805 8846	491	12 13.4
	24	10 20 8.62	49.75	11 19 23.0	4 40.1	0.805 9337	351	12 10.3
	25	10 20 58.37	49.73	11 14 42.9	4 40.5	0.805 9688	210	12 7.2
	26	10 21 48.10	49.72	11 10 2.4	4 40.9	0.805 9898	69	12 4.1
	27	10 22 37.82	49.70	11 5 21.5	4 41.4	0.805 9967	−73	12 1.0
	28	10 23 27.52	49.67	+11 0 40.1	4 41.7	0.805 9894	215	11 57.9
	29	10 24 17.19	49.64	10 55 58.4	4 42.0	0.805 9679	358	11 54.8
	30	10 25 6.83	49.61	10 51 16.4	4 42.3	0.805 9321	500	11 51.7
	31	10 25 56.44	49.57	10 46 34.1	4 42.5	0.805 8821	642	11 48.6
Sept.	1	10 26 46.01	49.52	10 41 51.6	4 42.8	0.805 8179	785	11 45.5
	2	10 27 35.53		+10 37 8.8		0.805 7394		11 42.4

Tag	0h Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1932	h m s	s	° ′ ″	′ ″			h m
Sept. 2	10 27 35.53	49.47	+10 37 8.8	4 43.0	0.805 7394	928	11 42.4
3	10 28 25.00	49.41	10 32 25.8	4 43.2	0.805 6466	1070	11 39.2
4	10 29 14.41	49.36	10 27 42.6	4 43.2	0.805 5396	1212	11 36.1
5	10 30 3.77	49.29	10 22 59.4	4 43.3	0.805 4184	1354	11 33.0
6	10 30 53.06	49.22	10 18 16.1	4 43.4	0.805 2830	1497	11 29.9
7	10 31 42.28	49.14	10 13 32.7	4 43.3	0.805 1333	1639	11 26.8
8	10 32 31.42	49.07	+10 8 49.4	4 43.3	0.804 9694	1779	11 23.7
9	10 33 20.49	48.98	10 4 6.1	4 43.2	0.804 7915	1921	11 20.5
10	10 34 9.47	48.90	9 59 22.9	4 43.2	0.804 5994	2061	11 17.4
11	10 34 58.37	48.82	9 54 39.7	4 43.0	0.804 3933	2203	11 14.3
12	10 35 47.19	48.72	9 49 56.7	4 42.9	0.804 1730	2343	11 11.2
13	10 36 35.91	48.62	9 45 13.8	4 42.8	0.803 9387	2483	11 8.0
14	10 37 24.53	48.51	+ 9 40 31.0	4 42.5	0.803 6904	2624	11 4.9
15	10 38 13.04	48.41	9 35 48.5	4 42.3	0.803 4280	2765	11 1.8
16	10 39 1.45	48.31	9 31 6.2	4 42.1	0.803 1515	2906	10 58.7
17	10 39 49.76	48.19	9 26 24.1	4 41.7	0.802 8609	3047	10 55.5
18	10 40 37.95	48.07	9 21 42.4	4 41.4	0.802 5562	3187	10 52.4
19	10 41 26.02	47.95	9 17 1.0	4 41.1	0.802 2375	3329	10 49.3
20	10 42 13.97	47.82	+ 9 12 19.9	4 40.7	0.801 9046	3469	10 46.1
21	10 43 1.79	47.71	9 7 39.2	4 40.3	0.801 5577	3611	10 43.0
22	10 43 49.50	47.56	9 2 58.9	4 39.8	0.801 1966	3752	10 39.8
23	10 44 37.06	47.42	8 58 19.1	4 39.3	0.800 8214	3893	10 36.7
24	10 45 24.48	47.28	8 53 39.8	4 38.8	0.800 4321	4035	10 33.6
25	10 46 11.76	47.13	8 49 1.0	4 38.2	0.800 0286	4177	10 30.4
26	10 46 58.89	46.98	+ 8 44 22.8	4 37.6	0.799 6109	4317	10 27.3
27	10 47 45.87	46.82	8 39 45.2	4 36.9	0.799 1792	4459	10 24.1
28	10 48 32.69	46.66	8 35 8.3	4 36.2	0.798 7333	4601	10 20.9
29	10 49 19.35	46.48	8 30 32.1	4 35.5	0.798 2732	4741	10 17.8
30	10 50 5.83	46.31	8 25 56.6	4 34.6	0.797 7991	4883	10 14.6
Okt. 1	10 50 52.14	46.12	8 21 22.0	4 33.8	0.797 3108	5023	10 11.5
2	10 51 38.26	45.94	+ 8 16 48.2	4 33.0	0.796 8085	5164	10 8.3
3	10 52 24.20	45.75	8 12 15.2	4 32.0	0.796 2921	5303	10 5.1
4	10 53 9.95	45.55	8 7 43.2	4 31.1	0.795 7618	5443	10 2.0
5	10 53 55.50	45.35	8 3 12.1	4 30.0	0.795 2175	5581	9 58.8
6	10 54 40.85	45.14	7 58 42.1	4 29.1	0.794 6594	5721	9 55.6
7	10 55 25.99	44.93	7 54 13.0	4 27.9	0.794 0873	5858	9 52.4
8	10 56 10.92	44.71	+ 7 49 45.1	4 26.9	0.793 5015	5995	9 49.2
9	10 56 55.63	44.49	7 45 18.2	4 25.7	0.792 9020	6132	9 46.0
10	10 57 40.12	44.27	7 40 52.5	4 24.5	0.792 2888	6268	9 42.8
11	10 58 24.39	44.04	7 36 28.0	4 23.3	0.791 6620	6402	9 39.6
12	10 59 8.43	43.80	7 32 4.7	4 22.0	0.791 0218	6538	9 36.4
13	10 59 52.23		+ 7 27 42.7		0.790 3680		9 33.2

Jupiter 1932

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Okt. 13	10 59 52.23	43.56	+7 27 42.7	4 20.8	0.790 3680	6674	9 33.2
14	11 0 35.79	43.32	7 23 21.9	4 19.4	0.789 7006	6808	9 30.0
15	11 1 19.11	43.08	7 19 2.5	4 18.1	0.789 0198	6942	9 26.8
16	11 2 2.19	42.82	7 14 44.4	4 16.6	0.788 3256	7077	9 23.6
17	11 2 45.01	42.56	7 10 27.8	4 15.2	0.787 6179	7211	9 20.3
18	11 3 27.57	42.30	7 6 12.6	4 13.8	0.786 8968	7345	9 17.1
19	11 4 9.87	42.03	+7 1 58.8	4 12.2	0.786 1623	7479	9 13.9
20	11 4 51.90	41.75	6 57 46.6	4 10.6	0.785 4144	7611	9 10.6
21	11 5 33.65	41.47	6 53 36.0	4 9.0	0.784 6533	7743	9 7.4
22	11 6 15.12	41.19	6 49 27.0	4 7.4	0.783 8790	7875	9 4.2
23	11 6 56.31	40.90	6 45 19.6	4 5.6	0.783 0915	8007	9 0.9
24	11 7 37.21	40.60	6 41 14.0	4 3.9	0.782 2908	8137	8 57.7
25	11 8 17.81	40.29	+6 37 10.1	4 2.0	0.781 4771	8269	8 54.4
26	11 8 58.10	39.99	6 33 8.1	4 0.2	0.780 6502	8398	8 51.2
27	11 9 38.09	39.66	6 29 7.9	3 58.3	0.779 8104	8528	8 47.9
28	11 10 17.75	39.34	6 25 9.6	3 56.3	0.778 9576	8656	8 44.6
29	11 10 57.09	39.00	6 21 13.3	3 54.3	0.778 0920	8784	8 41.3
30	11 11 36.09	38.68	6 17 19.0	3 52.3	0.777 2136	8911	8 38.0
31	11 12 14.77	38.33	+6 13 26.7	3 50.2	0.776 3225	9037	8 34.7
Nov. 1	11 12 53.10	37.98	6 9 36.5	3 47.9	0.775 4188	9161	8 31.4
2	11 13 31.08	37.63	6 5 48.6	3 45.8	0.774 5027	9282	8 28.1
3	11 14 8.71	37.27	6 2 2.8	3 43.6	0.773 5745	9404	8 24.8
4	11 14 45.98	36.90	5 58 19.2	3 41.2	0.772 6341	9524	8 21.5
5	11 15 22.88	36.52	5 54 38.0	3 38.9	0.771 6817	9643	8 18.2
6	11 15 59.40	36.14	+5 50 59.1	3 36.6	0.770 7174	9762	8 14.8
7	11 16 35.54	35.76	5 47 22.5	3 34.2	0.769 7412	9879	8 11.5
8	11 17 11.30	35.38	5 43 48.3	3 31.6	0.768 7533	9995	8 8.2
9	11 17 46.68	34.97	5 40 16.7	3 29.2	0.767 7538	1 0109	8 4.8
10	11 18 21.65	34.57	5 36 47.5	3 26.6	0.766 7429	1 0222	8 1.5
11	11 18 56.22	34.17	5 33 20.9	3 24.0	0.765 7207	1 0334	7 58.1
12	11 19 30.39	33.76	+5 29 56.9	3 21.5	0.764 6873	1 0444	7 54.7
13	11 20 4.15	33.34	5 26 35.4	3 18.7	0.763 6429	1 0554	7 51.3
14	11 20 37.49	32.91	5 23 16.7	3 16.1	0.762 5875	1 0663	7 48.0
15	11 21 10.40	32.49	5 20 0.6	3 13.3	0.761 5212	1 0771	7 44.6
16	11 21 42.89	32.04	5 16 47.3	3 10.5	0.760 4441	1 0877	7 41.2
17	11 22 14.93	31.61	5 13 36.8	3 7.7	0.759 3564	1 0982	7 37.8
18	11 22 46.54	31.15	+5 10 29.1	3 4.7	0.758 2582	1 1085	7 34.4
19	11 23 17.69	30.70	5 7 24.4	3 1.8	0.757 1497	1 1187	7 31.0
20	11 23 48.39	30.24	5 4 22.6	2 58.8	0.756 0310	1 1289	7 27.6
21	11 24 18.63	29.76	5 1 23.8	2 55.8	0.754 9021	1 1387	7 24.1
22	11 24 48.39	29.29	4 58 28.0	2 52.7	0.753 7634	1 1484	7 20.7
23	11 25 17.68		+4 55 35.3		0.752 6150		7 17.2

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Nov. 23	11 25 17.68	28.80	+4 55 35.3	2 49.5	0.752 6150	1 1580	7 17.2
24	11 25 46.48	28.30	4 52 45.8	2 46.2	0.751 4570	1 1673	7 13.8
25	11 26 14.78	27.81	4 49 59.6	2 43.0	0.750 2897	1 1765	7 10.3
26	11 26 42.59	27.29	4 47 16.6	2 39.7	0.749 1132	1 1855	7 6.8
27	11 27 9.88	26.78	4 44 36.9	2 36.3	0.747 9277	1 1941	7 3.3
28	11 27 36.66	26.27	4 42 0.6	2 32.9	0.746 7336	1 2027	6 59.9
29	11 28 2.93	25.73	+4 39 27.7	2 29.5	0.745 5309	1 2108	6 56.4
30	11 28 28.66	25.19	4 36 58.2	2 25.9	0.744 3201	1 2187	6 52.9
Dez. 1	11 28 53.85	24.66	4 34 32.3	2 22.4	0.743 1014	1 2265	6 49.4
2	11 29 18.51	24.10	4 32 9.9	2 18.8	0.741 8749	1 2339	6 45.8
3	11 29 42.61	23.55	4 29 51.1	2 15.3	0.740 6410	1 2409	6 42.3
4	11 30 6.16	23.00	4 27 35.8	2 11.5	0.739 4001	1 2479	6 38.7
5	11 30 29.16	22.44	+4 25 24.3	2 7.9	0.738 1522	1 2545	6 35.2
6	11 30 51.60	21.86	4 23 16.4	2 4.1	0.736 8977	1 2609	6 31.6
7	11 31 13.46	21.28	4 21 12.3	2 0.3	0.735 6368	1 2671	6 28.0
8	11 31 34.74	20.70	4 19 12.0	1 56.5	0.734 3697	1 2728	6 24.4
9	11 31 55.44	20.12	4 17 15.5	1 52.7	0.733 0969	1 2784	6 20.8
10	11 32 15.56	19.53	4 15 22.8	1 48.8	0.731 8185	1 2837	6 17.2
11	11 32 35.09	18.93	+4 13 34.0	1 44.8	0.730 5348	1 2887	6 13.6
12	11 32 54.02	18.32	4 11 49.2	1 41.0	0.729 2461	1 2933	6 10.0
13	11 33 12.34	17.71	4 10 8.2	1 36.9	0.727 9528	1 2979	6 6.4
14	11 33 30.05	17.10	4 8 31.3	1 32.8	0.726 6549	1 3020	6 2.8
15	11 33 47.15	16.48	4 6 58.5	1 28.8	0.725 3529	1 3058	5 59.1
16	11 34 3.63	15.85	4 5 29.7	1 24.8	0.724 0471	1 3094	5 55.5
17	11 34 19.48	15.22	+4 4 4.9	1 20.6	0.722 7377	1 3127	5 51.8
18	11 34 34.70	14.58	4 2 44.3	1 16.4	0.721 4250	1 3155	5 48.1
19	11 34 49.28	13.94	4 1 27.9	1 12.1	0.720 1095	1 3181	5 44.4
20	11 35 3.22	13.28	4 0 15.8	1 7.9	0.718 7914	1 3203	5 40.7
21	11 35 16.50	12.63	3 59 7.9	1 3.6	0.717 4711	1 3220	5 37.0
22	11 35 29.13	11.97	3 58 4.3	0 59.3	0.716 1491	1 3235	5 33.3
23	11 35 41.10	11.29	+3 57 5.0	0 54.9	0.714 8256	1 3244	5 29.5
24	11 35 52.39	10.63	3 56 10.1	0 50.5	0.713 5012	1 3251	5 25.8
25	11 36 3.02	9.95	3 55 19.6	0 46.1	0.712 1761	1 3253	5 22.0
26	11 36 12.97	9.27	3 54 33.5	0 41.5	0.710 8508	1 3250	5 18.2
27	11 36 22.24	8.58	3 53 52.0	0 37.1	0.709 5258	1 3243	5 14.4
28	11 36 30.82	7.89	3 53 14.9	0 32.7	0.708 2015	1 3232	5 10.7
29	11 36 38.71	7.19	+3 52 42.2	0 28.1	0.706 8783	1 3215	5 6.9
30	11 36 45.90	6.50	3 52 14.1	0 23.5	0.705 5568	1 3194	5 3.1
31	11 36 52.40	5.80	3 51 50.6	0 19.1	0.704 2374	1 3168	4 59.2
32	11 36 58.20		+3 51 31.5		0.702 9206		4 55.4

Saturn 1932

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Jan. 0	19 42 5.08	29.57	—21 27 39.3	1 7.7	1.039 2418	1675	13 6.4
1	19 42 34.65	29.64	21 26 31.6	1 8.2	1.039 4093	1575	13 2.9
2	19 43 4.29	29.72	21 25 23.4	1 8.7	1.039 5668	1473	12 59.5
3	19 43 34.01	29.78	21 24 14.7	1 9.3	1.039 7141	1370	12 56.0
4	19 44 3.79	29.83	21 23 5.4	1 9.7	1.039 8511	1268	12 52.6
5	19 44 33.62	29.89	21 21 55.7	1 10.2	1.039 9779	1166	12 49.2
6	19 45 3.51	29.94	—21 20 45.5	1 10.7	1.040 0945	1062	12 45.7
7	19 45 33.45	29.99	21 19 34.8	1 11.1	1.040 2007	958	12 42.3
8	19 46 3.44	30.01	21 18 23.7	1 11.6	1.040 2965	856	12 38.9
9	19 46 33.45	30.05	21 17 12.1	1 12.0	1.040 3821	752	12 35.4
10	19 47 3.50	30.08	21 16 0.1	1 12.4	1.040 4573	648	12 32.0
11	19 47 33.58	30.10	21 14 47.7	1 12.8	1.040 5221	544	12 28.6
12	19 48 3.68	30.12	—21 13 34.9	1 13.2	1.040 5765	441	12 25.1
13	19 48 33.80	30.12	21 12 21.7	1 13.7	1.040 6206	337	12 21.7
14	19 49 3.92	30.14	21 11 8.0	1 13.9	1.040 6543	234	12 18.3
15	19 49 34.06	30.13	21 9 54.1	1 14.3	1.040 6777	130	12 14.8
16	19 50 4.19	30.12	21 8 39.8	1 14.6	1.040 6907	26	12 11.4
17	19 50 34.31	30.11	21 7 25.2	1 14.9	1.040 6933	$\overline{76}$	12 8.0
18	19 51 4.42	30.10	—21 6 10.3	1 15.3	1.040 6857	180	12 4.5
19	19 51 34.52	30.08	21 4 55.0	1 15.5	1.040 6677	284	12 1.1
20	19 52 4.60	30.05	21 3 39.5	1 15.8	1.040 6393	386	11 57.7
21	19 52 34.65	30.03	21 2 23.7	1 16.1	1.040 6007	488	11 54.3
22	19 53 4.68	29.99	21 1 7.6	1 16.3	1.040 5519	591	11 50.8
23	19 53 34.67	29.96	20 59 51.3	1 16.5	1.040 4928	693	11 47.4
24	19 54 4.63	29.92	—20 58 34.8	1 16.8	1.040 4235	795	11 43.9
25	19 54 34.55	29.87	20 57 18.0	1 17.0	1.040 3440	897	11 40.5
26	19 55 4.42	29.82	20 56 1.0	1 17.1	1.040 2543	999	11 37.1
27	19 55 34.24	29.77	20 54 43.9	1 17.4	1.040 1544	1102	11 33.6
28	19 56 4.01	29.70	20 53 26.5	1 17.5	1.040 0442	1204	11 30.2
29	19 56 33.71	29.64	20 52 9.0	1 17.6	1.039 9238	1306	11 26.7
30	19 57 3.35	29.57	—20 50 51.4	1 17.8	1.039 7932	1408	11 23.3
31	19 57 32.92	29.50	20 49 33.6	1 18.0	1.039 6524	1509	11 19.9
Febr. 1	19 58 2.42	29.42	20 48 15.6	1 18.0	1.039 5015	1611	11 16.4
2	19 58 31.84	29.34	20 46 57.6	1 18.2	1.039 3404	1711	11 13.0
3	19 59 1.18	29.25	20 45 39.4	1 18.2	1.039 1693	1813	11 9.5
4	19 59 30.43	29.16	20 44 21.2	1 18.2	1.038 9880	1914	11 6.1
5	19 59 59.59	29.05	—20 43 3.0	1 18.2	1.038 7966	2015	11 2.6
6	20 0 28.64	28.95	20 41 44.8	1 18.4	1.038 5951	2115	10 59.2
7	20 0 57.59	28.84	20 40 26.4	1 18.3	1.038 3836	2215	10 55.7
8	20 1 26.43	28.73	20 39 8.1	1 18.2	1.038 1621	2315	10 52.3
9	20 1 55.16	28.61	20 37 49.9	1 18.2	1.037 9306	2413	10 48.8
10	20 2 23.77		—20 36 31.7		1.037 6893		10 45.3

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1932	h m s	s	° ′ ″	′ ″			h m
Febr. 10	20 2 23.77	28.48	−20 36 31.7	1 18.2	1.037 6893	2512	10 45.3
11	20 2 52.25	28.35	20 35 13.5	1 18.1	1.037 4381	2610	10 41.9
12	20 3 20.60	28.21	20 33 55.4	1 18.0	1.037 1771	2706	10 38.4
13	20 3 48.81	28.08	20 32 37.4	1 17.8	1.036 9065	2804	10 35.0
14	20 4 16.89	27.94	20 31 19.6	1 17.7	1.036 6261	2900	10 31.5
15	20 4 44.83	27.79	20 30 1.9	1 17.6	1.036 3361	2995	10 28.0
16	20 5 12.62	27.64	−20 28 44.3	1 17.4	1.036 0366	3090	10 24.6
17	20 5 40.26	27.48	20 27 26.9	1 17.2	1.035 7276	3183	10 21.1
18	20 6 7.74	27.32	20 26 9.7	1 17.0	1.035 4093	3277	10 17.6
19	20 6 35.06	27.16	20 24 52.7	1 16.7	1.035 0816	3370	10 14.1
20	20 7 2.22	26.99	20 23 36.0	1 16.5	1.034 7446	3463	10 10.6
21	20 7 29.21	26.82	20 22 19.5	1 16.3	1.034 3983	3555	10 7.1
22	20 7 56.03	26.64	−20 21 3.2	1 15.9	1.034 0428	3645	10 3.6
23	20 8 22.67	26.46	20 19 47.3	1 15.7	1.033 6783	3736	10 0.2
24	20 8 49.13	26.28	20 18 31.6	1 15.3	1.033 3047	3826	9 56.7
25	20 9 15.41	26.09	20 17 16.3	1 15.0	1.032 9221	3916	9 53.2
26	20 9 41.50	25.89	20 16 1.3	1 14.7	1.032 5305	4004	9 49.7
27	20 10 7.39	25.71	20 14 46.6	1 14.3	1.032 1301	4093	9 46.2
28	20 10 33.10	25.50	−20 13 32.3	1 14.0	1.031 7208	4182	9 42.7
29	20 10 58.60	25.29	20 12 18.3	1 13.5	1.031 3026	4268	9 39.2
März 1	20 11 23.89	25.08	20 11 4.8	1 13.0	1.030 8758	4354	9 35.6
2	20 11 48.97	24.87	20 9 51.8	1 12.6	1.030 4404	4441	9 32.1
3	20 12 13.84	24.65	20 8 39.2	1 12.2	1.029 9963	4525	9 28.6
4	20 12 38.49	24.42	20 7 27.0	1 11.7	1.029 5438	4611	9 25.1
5	20 13 2.91	24.19	−20 6 15.3	1 11.2	1.029 0827	4693	9 21.6
6	20 13 27.10	23.96	20 5 4.1	1 10.6	1.028 6134	4776	9 18.0
7	20 13 51.06	23.72	20 3 53.5	1 10.0	1.028 1358	4858	9 14.5
8	20 14 14.78	23.48	20 2 43.5	1 9.5	1.027 6500	4936	9 11.0
9	20 14 38.26	23.24	20 1 34.0	1 8.9	1.027 1564	5016	9 7.4
10	20 15 1.50	22.98	20 0 25.1	1 8.2	1.026 6548	5095	9 3.9
11	20 15 24.48	22.72	−19 59 16.9	1 7.6	1.026 1453	5173	9 0.3
12	20 15 47.20	22.47	19 58 9.3	1 6.9	1.025 6280	5249	8 56.7
13	20 16 9.67	22.21	19 57 2.4	1 6.2	1.025 1031	5323	8 53.2
14	20 16 31.88	21.93	19 55 56.2	1 5.6	1.024 5708	5398	8 49.6
15	20 16 53.81	21.67	19 54 50.6	1 4.8	1.024 0310	5470	8 46.1
16	20 17 15.48	21.39	19 53 45.8	1 4.1	1.023 4840	5541	8 42.5
17	20 17 36.87	21.11	−19 52 41.7	1 3.4	1.022 9299	5612	8 38.9
18	20 17 57.98	20.84	19 51 38.3	1 2.6	1.022 3687	5681	8 35.3
19	20 18 18.82	20.55	19 50 35.7	1 1.8	1.021 8006	5749	8 31.7
20	20 18 39.37	20.27	19 49 33.9	1 1.0	1.021 2257	5815	8 28.1
21	20 18 59.64	19.97	19 48 32.9	1 0.1	1.020 6442	5882	8 24.5
22	20 19 19.61		−19 47 32.8		1.020 0560		8 20.9

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	″			h m
März 22	20 19 19.61	19.68	−19 47 32.8	59.3	1.020 0560	5946	8 20.9
23	20 19 39.29	19.39	19 46 33.5	58.4	1.019 4614	6010	8 17.3
24	20 19 58.68	19.08	19 45 35.1	57.6	1.018 8604	6072	8 13.7
25	20 20 17.76	18.78	19 44 37.5	56.6	1.018 2532	6135	8 10.1
26	20 20 36.54	18.48	19 43 40.9	55.8	1.017 6397	6195	8 6.4
27	20 20 55.02	18.16	19 42 45.1	54.8	1.017 0202	6255	8 2.8
28	20 21 13.18	17.84	−19 41 50.3	53.9	1.016 3947	6312	7 59.2
29	20 21 31.02	17.54	19 40 56.4	52.9	1.015 7635	6370	7 55.6
30	20 21 48.56	17.21	19 40 3.5	52.0	1.015 1265	6425	7 51.9
31	20 22 5.77	16.88	19 39 11.5	50.9	1.014 4840	6479	7 48.3
April 1	20 22 22.65	16.55	19 38 20.6	49.9	1.013 8361	6532	7 44.6
2	20 22 39.20	16.22	19 37 30.7	48.9	1.013 1829	6583	7 41.0
3	20 22 55.42	15.88	−19 36 41.8	47.7	1.012 5246	6632	7 37.3
4	20 23 11.30	15.54	19 35 54.1	46.7	1.011 8614	6681	7 33.7
5	20 23 26.84	15.19	19 35 7.4	45.6	1.011 1933	6727	7 30.0
6	20 23 42.03	14.85	19 34 21.8	44.5	1.010 5206	6773	7 26.3
7	20 23 56.88	14.50	19 33 37.3	43.3	1.009 8433	6815	7 22.6
8	20 24 11.38	14.15	19 32 54.0	42.2	1.009 1618	6857	7 18.9
9	20 24 25.53	13.79	−19 32 11.8	41.1	1.008 4761	6898	7 15.2
10	20 24 39.32	13.44	19 31 30.7	39.8	1.007 7863	6935	7 11.5
11	20 24 52.76	13.07	19 30 50.9	38.7	1.007 0928	6973	7 7.8
12	20 25 5.83	12.71	19 30 12.2	37.5	1.006 3955	7006	7 4.0
13	20 25 18.54	12.35	19 29 34.7	36.3	1.005 6949	7040	7 0.3
14	20 25 30.89	11.97	19 28 58.4	35.0	1.004 9909	7071	6 56.6
15	20 25 42.86	11.61	−19 28 23.4	33.7	1.004 2838	7101	6 52.9
16	20 25 54.47	11.23	19 27 49.7	32.5	1.003 5737	7127	6 49.2
17	20 26 5.70	10.86	19 27 17.2	31.3	1.002 8610	7154	6 45.4
18	20 26 16.56	10.49	19 26 45.9	29.9	1.002 1456	7179	6 41.6
19	20 26 27.05	10.11	19 26 16.0	28.7	1.001 4277	7201	6 37.9
20	20 26 37.16	9.74	19 25 47.3	27.3	1.000 7076	7221	6 34.1
21	20 26 46.90	9.35	−19 25 20.0	26.1	0.999 9855	7242	6 30.3
22	20 26 56.25	8.97	19 24 53.9	24.7	0.999 2613	7259	6 26.6
23	20 27 5.22	8.59	19 24 29.2	23.5	0.998 5354	7276	6 22.8
24	20 27 13.81	8.20	19 24 5.7	22.1	0.997 8078	7289	6 19.0
25	20 27 22.01	7.81	19 23 43.6	20.7	0.997 0789	7303	6 15.2
26	20 27 29.82	7.42	19 23 22.9	19.4	0.996 3486	7313	6 11.4
27	20 27 37.24	7.03	−19 23 3.5	18.1	0.995 6173	7322	6 7.6
28	20 27 44.27	6.64	19 22 45.4	16.7	0.994 8851	7328	6 3.7
29	20 27 50.91	6.24	19 22 28.7	15.3	0.994 1523	7333	5 59.9
30	20 27 57.15	5.84	19 22 13.4	13.9	0.993 4190	7335	5 56.1
Mai 1	20 28 2.99	5.44	19 21 59.5	12.5	0.992 6855	7336	5 52.3
2	20 28 8.43		−19 21 47.0		0.991 9519		5 48.4

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	″			h m
Mai 2	20 28 8.43	5.04	−19 21 47.0	11.1	0.991 9519	7333	5 48.4
3	20 28 13.47	4.64	19 21 35.9	9.6	0.991 2186	7331	5 44.6
4	20 28 18.11	4.24	19 21 26.3	8.3	0.990 4855	7325	5 40.7
5	20 28 22.35	3.84	19 21 18.0	6.8	0.989 7530	7316	5 36.9
6	20 28 26.19	3.42	19 21 11.2	5.5	0.989 0214	7307	5 33.0
7	20 28 29.61	3.02	19 21 5.7	3.9	0.988 2907	7293	5 29.1
8	20 28 32.63	2.62	−19 21 1.8	2.5	0.987 5614	7278	5 25.2
9	20 28 35.25	2.22	19 20 59.3	1.1	0.986 8336	7261	5 21.4
10	20 28 37.47	1.81	19 20 58.2	0.4	0.986 1075	7241	5 17.5
11	20 28 39.28	1.40	19 20 58.6	1.8	0.985 3834	7219	5 13.5
12	20 28 40.68	1.00	19 21 0.4	3.2	0.984 6615	7195	5 9.6
13	20 28 41.68	0.60	19 21 3.6	4.6	0.983 9420	7169	5 5.7
14	20 28 42.28	0.20	−19 21 8.2	6.0	0.983 2251	7140	5 1.8
15	20 28 42.48	0.20	19 21 14.2	7.5	0.982 5111	7110	4 57.9
16	20 28 42.28	0.61	19 21 21.7	8.9	0.981 8001	7077	4 53.9
17	20 28 41.67	1.00	19 21 30.6	10.3	0.981 0924	7043	4 50.0
18	20 28 40.67	1.40	19 21 40.9	11.7	0.980 3881	7005	4 46.0
19	20 28 39.27	1.80	19 21 52.6	13.1	0.979 6876	6968	4 42.1
20	20 28 37.47	2.19	−19 22 5.7	14.5	0.978 9908	6926	4 38.1
21	20 28 35.28	2.59	19 22 20.2	15.8	0.978 2982	6883	4 34.1
22	20 28 32.69	2.97	19 22 36.0	17.3	0.977 6099	6837	4 30.2
23	20 28 29.72	3.38	19 22 53.3	18.7	0.976 9262	6790	4 26.2
24	20 28 26.34	3.76	19 23 12.0	20.0	0.976 2472	6739	4 22.2
25	20 28 22.58	4.16	19 23 32.0	21.3	0.975 5733	6689	4 18.2
26	20 28 18.42	4.55	−19 23 53.3	22.7	0.974 9044	6634	4 14.2
27	20 28 13.87	4.94	19 24 16.0	24.1	0.974 2410	6578	4 10.2
28	20 28 8.93	5.32	19 24 40.1	25.4	0.973 5832	6519	4 6.2
29	20 28 3.61	5.70	19 25 5.5	26.7	0.972 9313	6458	4 2.1
30	20 27 57.91	6.08	19 25 32.2	28.1	0.972 2855	6394	3 58.1
31	20 27 51.83	6.47	19 26 0.3	29.3	0.971 6461	6327	3 54.1
Juni 1	20 27 45.36	6.83	−19 26 29.6	30.7	0.971 0134	6259	3 50.1
2	20 27 38.53	7.21	19 27 0.3	31.9	0.970 3875	6188	3 46.0
3	20 27 31.32	7.57	19 27 32.2	33.1	0.969 7687	6115	3 41.9
4	20 27 23.75	7.95	19 28 5.3	34.5	0.969 1572	6039	3 37.9
5	20 27 15.80	8.31	19 28 39.8	35.7	0.968 5533	5961	3 33.8
6	20 27 7.49	8.67	19 29 15.5	36.9	0.967 9572	5880	3 29.8
7	20 26 58.82	9.02	−19 29 52.4	38.1	0.967 3692	5798	3 25.7
8	20 26 49.80	9.37	19 30 30.5	39.2	0.966 7894	5713	3 21.6
9	20 26 40.43	9.71	19 31 9.7	40.4	0.966 2181	5626	3 17.5
10	20 26 30.72	10.05	19 31 50.1	41.5	0.965 6555	5538	3 13.4
11	20 26 20.67	10.38	19 32 31.6	42.7	0.965 1017	5447	3 9.3
12	20 26 10.29		−19 33 14.3		0.964 5570		3 5.2

Saturn 1932

Tag	0h Welt-Zeit: Scheinbare Rektaszension (h m s)	Diff. (s)	0h Welt-Zeit: Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	0h Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich (h m)
1932							
Juni 12	20 26 10.29	10.72	−19 33 14.3	0 43.7	0.964 5570	5353	3 5.2
13	20 25 59.57	11.04	19 33 58.0	0 44.8	0.964 0217	5258	3 1.1
14	20 25 48.53	11.36	19 34 42.8	0 45.7	0.963 4959	5161	2 57.0
15	20 25 37.17	11.66	19 35 28.5	0 46.8	0.962 9798	5061	2 52.8
16	20 25 25.51	11.98	19 36 15.3	0 47.8	0.962 4737	4961	2 48.7
17	20 25 13.53	12.28	19 37 3.1	0 48.7	0.961 9776	4858	2 44.6
18	20 25 1.25	12.58	−19 37 51.8	0 49.7	0.961 4918	4754	2 40.5
19	20 24 48.67	12.87	19 38 41.5	0 50.6	0.961 0164	4647	2 36.3
20	20 24 35.80	13.16	19 39 32.1	0 51.5	0.960 5517	4541	2 32.2
21	20 24 22.64	13.45	19 40 23.6	0 52.4	0.960 0976	4431	2 28.0
22	20 24 9.19	13.71	19 41 16.0	0 53.2	0.959 6545	4318	2 23.9
23	20 23 55.48	13.99	19 42 9.2	0 54.0	0.959 2227	4205	2 19.7
24	20 23 41.49	14.25	−19 43 3.2	0 54.9	0.958 8022	4090	2 15.6
25	20 23 27.24	14.51	19 43 58.1	0 55.6	0.958 3932	3972	2 11.4
26	20 23 12.73	14.76	19 44 53.7	0 56.3	0.957 9960	3854	2 7.2
27	20 22 57.97	15.00	19 45 50.0	0 57.0	0.957 6106	3734	2 3.0
28	20 22 42.97	15.24	19 46 47.0	0 57.8	0.957 2372	3611	1 58.9
29	20 22 27.73	15.47	19 47 44.8	0 58.3	0.956 8761	3487	1 54.7
30	20 22 12.26	15.69	−19 48 43.1	0 59.0	0.956 5274	3362	1 50.5
Juli 1	20 21 56.57	15.91	19 49 42.1	0 59.6	0.956 1912	3234	1 46.3
2	20 21 40.66	16.11	19 50 41.7	1 0.1	0.955 8678	3104	1 42.1
3	20 21 24.55	16.31	19 51 41.8	1 0.7	0.955 5574	2975	1 37.9
4	20 21 8.24	16.50	19 52 42.5	1 1.2	0.955 2599	2843	1 33.7
5	20 20 51.74	16.68	19 53 43.7	1 1.7	0.954 9756	2709	1 29.5
6	20 20 35.06	16.86	−19 54 45.4	1 2.1	0.954 7047	2576	1 25.3
7	20 20 18.20	17.02	19 55 47.5	1 2.5	0.954 4471	2440	1 21.1
8	20 20 1.18	17.17	19 56 50.0	1 2.9	0.954 2031	2304	1 16.9
9	20 19 44.01	17.32	19 57 52.9	1 3.1	0.953 9727	2166	1 12.6
10	20 19 26.69	17.45	19 58 56.0	1 3.5	0.953 7561	2028	1 8.4
11	20 19 9.24	17.58	19 59 59.5	1 3.7	0.953 5533	1889	1 4.2
12	20 18 51.66	17.71	−20 1 3.2	1 3.9	0.953 3644	1749	1 0.0
13	20 18 33.95	17.81	20 2 7.1	1 4.2	0.953 1895	1611	0 55.7
14	20 18 16.14	17.91	20 3 11.3	1 4.4	0.953 0284	1469	0 51.5
15	20 17 58.23	18.00	20 4 15.7	1 4.4	0.952 8815	1329	0 47.3
16	20 17 40.23	18.10	20 5 20.1	1 4.6	0.952 7486	1186	0 43.1
17	20 17 22.13	18.16	20 6 24.7	1 4.6	0.952 6300	1044	0 38.8
18	20 17 3.97	18.23	−20 7 29.3	1 4.8	0.952 5256	902	0 34.6
19	20 16 45.74	18.29	20 8 34.1	1 4.6	0.952 4354	759	0 30.4
20	20 16 27.45	18.34	20 9 38.7	1 4.6	0.952 3595	614	0 26.2
21	20 16 9.11	18.39	20 10 43.3	1 4.6	0.952 2981	472	0 21.9
22	20 15 50.72	18.41	20 11 47.9	1 4.6	0.952 2509	328	0 17.7
23	20 15 32.31		−20 12 52.5		0.952 2181		0 13.4

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Juli 23	20 15 32.31	18.44	−20 12 52.5	1 4.4	0.952 2181	184	0 13.4
24	20 15 13.87	18.44	20 13 56.9	1 4.2	0.952 1997	38	0 9.2
25	20 14 55.43	18.46	20 15 1.1	1 4.1	0.952 1959	106	0 4.9
26	20 14 36.97	18.44	20 16 5.2	1 3.9	0.952 2065	252	{0 0.7 / 23 56.5}
27	20 14 18.53	18.43	20 17 9.1	1 3.7	0.952 2317	396	23 52.2
28	20 14 0.10	18.41	20 18 12.8	1 3.5	0.952 2713	542	23 48.0
29	20 13 41.69	18.38	−20 19 16.3	1 3.1	0.952 3255	687	23 43.8
30	20 13 23.31	18.33	20 20 19.4	1 2.9	0.952 3942	832	23 39.5
31	20 13 4.98	18.27	20 21 22.3	1 2.5	0.952 4774	976	23 35.3
Aug. 1	20 12 46.71	18.22	20 22 24.8	1 2.1	0.952 5750	1120	23 31.1
2	20 12 28.49	18.14	20 23 26.9	1 1.7	0.952 6870	1263	23 26.8
3	20 12 10.35	18.05	20 24 28.6	1 1.3	0.952 8133	1406	23 22.6
4	20 11 52.30	17.96	−20 25 29.9	1 0.7	0.952 9539	1548	23 18.4
5	20 11 34.34	17.86	20 26 30.6	1 0.3	0.953 1087	1689	23 14.2
6	20 11 16.48	17.75	20 27 30.9	0 59.7	0.953 2776	1831	23 9.9
7	20 10 58.73	17.62	20 28 30.6	0 59.2	0.953 4607	1971	23 5.7
8	20 10 41.11	17.49	20 29 29.8	0 58.6	0.953 6578	2109	23 1.5
9	20 10 23.62	17.34	20 30 28.4	0 58.0	0.953 8687	2247	22 57.2
10	20 10 6.28	17.20	−20 31 26.4	0 57.3	0.954 0934	2384	22 53.0
11	20 9 49.08	17.04	20 32 23.7	0 56.8	0.954 3318	2518	22 48.8
12	20 9 32.04	16.88	20 33 20.5	0 56.0	0.954 5836	2652	22 44.6
13	20 9 15.16	16.70	20 34 16.5	0 55.3	0.954 8488	2785	22 40.4
14	20 8 58.46	16.51	20 35 11.8	0 54.6	0.955 1273	2916	22 36.2
15	20 8 41.95	16.33	20 36 6.4	0 53.8	0.955 4189	3046	22 32.0
16	20 8 25.62	16.13	−20 37 0.2	0 53.1	0.955 7235	3176	22 27.8
17	20 8 9.49	15.93	20 37 53.3	0 52.3	0.956 0411	3304	22 23.6
18	20 7 53.56	15.71	20 38 45.6	0 51.5	0.956 3715	3429	22 19.4
19	20 7 37.85	15.49	20 39 37.1	0 50.7	0.956 7144	3555	22 15.2
20	20 7 22.36	15.27	20 40 27.8	0 50.0	0.957 0699	3678	22 11.0
21	20 7 7.09	15.02	20 41 17.8	0 49.0	0.957 4377	3800	22 6.8
22	20 6 52.07	14.78	−20 42 6.8	0 48.2	0.957 8177	3922	22 2.7
23	20 6 37.29	14.53	20 42 55.0	0 47.2	0.958 2099	4040	21 58.5
24	20 6 22.76	14.27	20 43 42.2	0 46.4	0.958 6139	4159	21 54.3
25	20 6 8.49	14.01	20 44 28.6	0 45.4	0.959 0298	4274	21 50.2
26	20 5 54.48	13.73	20 45 14.0	0 44.5	0.959 4572	4388	21 46.0
27	20 5 40.75	13.45	20 45 58.5	0 43.6	0.959 8960	4502	21 41.9
28	20 5 27.30	13.17	−20 46 42.1	0 42.6	0.960 3462	4611	21 37.7
29	20 5 14.13	12.86	20 47 24.7	0 41.6	0.960 8073	4721	21 33.6
30	20 5 1.27	12.56	20 48 6.3	0 40.6	0.961 2794	4828	21 29.4
31	20 4 48.71	12.25	20 48 46.9	0 39.5	0.961 7622	4934	21 25.3
Sept. 1	20 4 36.46	11.94	20 49 26.4	0 38.5	0.962 2556	5036	21 21.1
2	20 4 24.52		−20 50 4.9		0.962 7592		21 17.0

Saturn 1932

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1932	h m s	s	° ′ ″	″			h m
Sept. 2	20 4 24.52	11.62	−20 50 4.9	37.5	0.962 7592	5136	21 17.0
3	20 4 12.90	11.28	20 50 42.4	36.4	0.963 2728	5235	21 12.9
4	20 4 1.62	10.95	20 51 18.8	35.3	0.963 7963	5332	21 8.8
5	20 3 50.67	10.61	20 51 54.1	34.2	0.964 3295	5425	21 4.7
6	20 3 40.06	10.27	20 52 28.3	33.1	0.964 8720	5518	21 0.6
7	20 3 29.79	9.91	20 53 1.4	32.0	0.965 4238	5606	20 56.5
8	20 3 19.88	9.56	−20 53 33.4	30.9	0.965 9844	5693	20 52.4
9	20 3 10.32	9.20	20 54 4.3	29.7	0.966 5537	5779	20 48.3
10	20 3 1.12	8.85	20 54 34.0	28.6	0.967 1316	5860	20 44.2
11	20 2 52.27	8.47	20 55 2.6	27.5	0.967 7176	5940	20 40.1
12	20 2 43.80	8.10	20 55 30.1	26.3	0.968 3116	6017	20 36.1
13	20 2 35.70	7.73	20 55 56.4	25.1	0.968 9133	6094	20 32.0
14	20 2 27.97	7.35	−20 56 21.5	24.1	0.969 5227	6168	20 28.0
15	20 2 20.62	6.98	20 56 45.6	22.8	0.970 1395	6238	20 23.9
16	20 2 13.64	6.59	20 57 8.4	21.7	0.970 7633	6307	20 19.9
17	20 2 7.05	6.20	20 57 30.1	20.5	0.971 3940	6374	20 15.8
18	20 2 0.85	5.81	20 57 50.6	19.3	0.972 0314	6439	20 11.8
19	20 1 55.04	5.42	20 58 9.9	18.3	0.972 6753	6502	20 7.8
20	20 1 49.62	5.02	−20 58 28.2	17.0	0.973 3255	6563	20 3.8
21	20 1 44.60	4.62	20 58 45.2	15.8	0.973 9818	6620	19 59.8
22	20 1 39.98	4.22	20 59 1.0	14.6	0.974 6438	6676	19 55.8
23	20 1 35.76	3.81	20 59 15.6	13.4	0.975 3114	6731	19 51.8
24	20 1 31.95	3.40	20 59 29.0	12.1	0.975 9845	6781	19 47.8
25	20 1 28.55	3.00	20 59 41.1	11.0	0.976 6626	6830	19 43.8
26	20 1 25.55	2.58	−20 59 52.1	9.7	0.977 3456	6877	19 39.8
27	20 1 22.97	2.17	21 0 1.8	8.5	0.978 0333	6922	19 35.9
28	20 1 20.80	1.75	21 0 10.3	7.3	0.978 7255	6964	19 31.9
29	20 1 19.05	1.34	21 0 17.6	6.1	0.979 4219	7002	19 27.9
30	20 1 17.71	0.92	21 0 23.7	4.8	0.980 1221	7039	19 24.0
Okt. 1	20 1 16.79	0.49	21 0 28.5	3.6	0.980 8260	7073	19 20.0
2	20 1 16.30	0.07	−21 0 32.1	2.3	0.981 5333	7105	19 16.1
3	20 1 16.23	0.35	21 0 34.4	1.1	0.982 2438	7135	19 12.2
4	20 1 16.58	0.78	21 0 35.5	0.1	0.982 9573	7162	19 8.3
5	20 1 17.36	1.19	21 0 35.4	1.4	0.983 6735	7186	19 4.4
6	20 1 18.55	1.62	21 0 34.0	2.6	0.984 3921	7207	19 0.5
7	20 1 20.17	2.04	21 0 31.4	3.9	0.985 1128	7228	18 56.6
8	20 1 22.21	2.46	−21 0 27.5	5.1	0.985 8356	7245	18 52.7
9	20 1 24.67	2.89	21 0 22.4	6.3	0.986 5601	7260	18 48.8
10	20 1 27.56	3.30	21 0 16.1	7.5	0.987 2861	7273	18 44.9
11	20 1 30.86	3.72	21 0 8.6	8.8	0.988 0134	7284	18 41.0
12	20 1 34.58	4.14	20 59 59.8	10.0	0.988 7418	7292	18 37.1
13	20 1 38.72		−20 59 49.8		0.989 4710		18 33.3

Tag	0h Welt-Zeit Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	log Δ	Diff.	Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	″			h m
Okt. 13	20 1 38.72	4.56	−20 59 49.8	11.2	0.989 4710	7298	18 33.3
14	20 1 43.28	4.98	20 59 38.6	12.5	0.990 2008	7304	18 29.4
15	20 1 48.26	5.39	20 59 26.1	13.7	0.990 9312	7306	18 25.6
16	20 1 53.65	5.80	20 59 12.4	14.9	0.991 6618	7306	18 21.8
17	20 1 59.45	6.22	20 58 57.5	16.1	0.992 3924	7305	18 17.9
18	20 2 5.67	6.63	20 58 41.4	17.3	0.993 1229	7301	18 14.1
19	20 2 12.30	7.04	−20 58 24.1	18.5	0.993 8530	7296	18 10.3
20	20 2 19.34	7.44	20 58 5.6	19.7	0.994 5826	7290	18 6.5
21	20 2 26.78	7.86	20 57 45.9	21.0	0.995 3116	7280	18 2.7
22	20 2 34.64	8.26	20 57 24.9	22.1	0.996 0396	7269	17 58.9
23	20 2 42.90	8.67	20 57 2.8	23.4	0.996 7665	7255	17 55.1
24	20 2 51.57	9.07	20 56 39.4	24.6	0.997 4920	7240	17 51.3
25	20 3 0.64	9.46	−20 56 14.8	25.8	0.998 2160	7223	17 47.5
26	20 3 10.10	9.88	20 55 49.0	27.0	0.998 9383	7203	17 43.8
27	20 3 19.98	10.27	20 55 22.0	28.2	0.999 6586	7180	17 40.0
28	20 3 30.25	10.68	20 54 53.8	29.4	1.000 3766	7158	17 36.2
29	20 3 40.93	11.06	20 54 24.4	30.6	1.001 0924	7131	17 32.5
30	20 3 51.99	11.46	20 53 53.8	31.8	1.001 8055	7105	17 28.8
31	20 4 3.45	11.84	−20 53 22.0	33.0	1.002 5160	7075	17 25.0
Nov. 1	20 4 15.29	12.22	20 52 49.0	34.3	1.003 2235	7042	17 21.3
2	20 4 27.51	12.61	20 52 14.7	35.3	1.003 9277	7009	17 17.6
3	20 4 40.12	12.99	20 51 39.4	36.6	1.004 6286	6975	17 13.8
4	20 4 53.11	13.36	20 51 2.8	37.7	1.005 3261	6936	17 10.1
5	20 5 6.47	13.73	20 50 25.1	38.9	1.006 0197	6898	17 6.4
6	20 5 20.20	14.09	−20 49 46.2	40.1	1.006 7095	6858	17 2.7
7	20 5 34.29	14.46	20 49 6.1	41.2	1.007 3953	6815	16 59.0
8	20 5 48.75	14.83	20 48 24.9	42.3	1.008 0768	6771	16 55.3
9	20 6 3.58	15.17	20 47 42.6	43.5	1.008 7539	6726	16 51.7
10	20 6 18.75	15.53	20 46 59.1	44.7	1.009 4265	6679	16 48.0
11	20 6 34.28	15.87	20 46 14.4	45.7	1.010 0944	6631	16 44.3
12	20 6 50.15	16.22	−20 45 28.7	46.9	1.010 7575	6581	16 40.6
13	20 7 6.37	16.56	20 44 41.8	47.9	1.011 4156	6530	16 37.0
14	20 7 22.93	16.90	20 43 53.9	49.1	1.012 0686	6479	16 33.3
15	20 7 39.83	17.24	20 43 4.8	50.2	1.012 7165	6424	16 29.7
16	20 7 57.07	17.57	20 42 14.6	51.3	1.013 3589	6370	16 26.0
17	20 8 14.64	17.89	20 41 23.3	52.4	1.013 9959	6312	16 22.4
18	20 8 32.53	18.22	−20 40 30.9	53.5	1.014 6271	6255	16 18.8
19	20 8 50.75	18.54	20 39 37.4	54.5	1.015 2526	6197	16 15.1
20	20 9 9.29	18.85	20 38 42.9	55.7	1.015 8723	6135	16 11.5
21	20 9 28.14	19.16	20 37 47.2	56.7	1.016 4858	6073	16 7.9
22	20 9 47.30	19.48	20 36 50.5	57.8	1.017 0931	6010	16 4.3
23	20 10 6.78		−20 35 52.7		1.017 6941		16 0.7

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Nov. 23	20 10 6.78	19.78	−20 35 52.7	0 58.9	1.017 6941	5946	16 0.7
24	20 10 26.56	20.08	20 34 53.8	0 59.9	1.018 2887	5879	15 57.1
25	20 10 46.64	20.37	20 33 53.9	1 1.1	1.018 8766	5812	15 53.5
26	20 11 7.01	20.67	20 32 52.8	1 2.1	1.019 4578	5743	15 49.9
27	20 11 27.68	20.95	20 31 50.7	1 3.1	1.020 0321	5672	15 46.3
28	20 11 48.63	21.24	20 30 47.6	1 4.1	1.020 5993	5600	15 42.7
29	20 12 9.87	21.53	−20 29 43.5	1 5.2	1.021 1593	5527	15 39.2
30	20 12 31.40	21.79	20 28 38.3	1 6.1	1.021 7120	5453	15 35.6
Dez. 1	20 12 53.19	22.07	20 27 32.2	1 7.2	1.022 2573	5379	15 32.0
2	20 13 15.26	22.33	20 26 25.0	1 8.1	1.022 7952	5301	15 28.5
3	20 13 37.59	22.58	20 25 16.9	1 9.2	1.023 3253	5224	15 24.9
4	20 14 0.17	22.84	20 24 7.7	1 10.1	1.023 8477	5146	15 21.4
5	20 14 23.01	23.08	−20 22 57.6	1 11.1	1.024 3623	5066	15 17.8
6	20 14 46.09	23.33	20 21 46.5	1 12.0	1.024 8689	4986	15 14.3
7	20 15 9.42	23.58	20 20 34.5	1 13.0	1.025 3675	4905	15 10.7
8	20 15 33.00	23.80	20 19 21.5	1 14.0	1.025 8580	4823	15 7.2
9	20 15 56.80	24.04	20 18 7.5	1 14.8	1.026 3403	4741	15 3.6
10	20 16 20.84	24.26	20 16 52.7	1 15.8	1.026 8144	4657	15 0.1
11	20 16 45.10	24.48	−20 15 36.9	1 16.7	1.027 2801	4573	14 56.6
12	20 17 9.58	24.69	20 14 20.2	1 17.6	1.027 7374	4487	14 53.1
13	20 17 34.27	24.91	20 13 2.6	1 18.4	1.028 1861	4402	14 49.5
14	20 17 59.18	25.11	20 11 44.2	1 19.4	1.028 6263	4316	14 46.0
15	20 18 24.29	25.31	20 10 24.8	1 20.2	1.029 0579	4228	14 42.5
16	20 18 49.60	25.51	20 9 4.6	1 21.0	1.029 4807	4140	14 39.0
17	20 19 15.11	25.71	−20 7 43.6	1 21.9	1.029 8947	4052	14 35.5
18	20 19 40.82	25.89	20 6 21.7	1 22.8	1.030 2999	3962	14 32.0
19	20 20 6.71	26.08	20 4 58.9	1 23.6	1.030 6961	3871	14 28.5
20	20 20 32.79	26.26	20 3 35.3	1 24.4	1.031 0832	3781	14 25.0
21	20 20 59.05	26.44	20 2 10.9	1 25.2	1.031 4613	3689	14 21.5
22	20 21 25.49	26.60	20 0 45.7	1 26.1	1.031 8302	3597	14 18.0
23	20 21 52.09	26.77	−19 59 19.6	1 26.9	1.032 1899	3503	14 14.5
24	20 22 18.86	26.94	19 57 52.7	1 27.6	1.032 5402	3410	14 11.0
25	20 22 45.80	27.08	19 56 25.1	1 28.4	1.032 8812	3314	14 7.5
26	20 23 12.88	27.24	19 54 56.7	1 29.2	1.033 2126	3218	14 4.0
27	20 23 40.12	27.38	19 53 27.5	1 29.8	1.033 5344	3122	14 0.6
28	20 24 7.50	27.53	19 51 57.7	1 30.6	1.033 8466	3026	13 57.1
29	20 24 35.03	27.67	−19 50 27.1	1 31.3	1.034 1492	2928	13 53.6
30	20 25 2.70	27.79	19 48 55.8	1 32.0	1.034 4420	2830	13 50.1
31	20 25 30.49	27.91	19 47 23.8	1 32.7	1.034 7250	2731	13 46.7
32	20 25 58.40		−19 45 51.1		1.034 9981		13 43.2

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	0h Welt-Zeit: Scheinbare Deklination	Diff.	0h Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Jan. −2	0 57 52.90	3.86	+5 29 24.2	0 34.1	1.296 6082	1 4959	18 28.9
+2	0 57 56.76	6.95	5 29 58.3	0 53.2	1.298 1041	1 5006	18 13.3
6	0 58 3.71	10.02	5 30 51.5	1 12.4	1.299 6047	1 4974	17 57.7
10	0 58 13.73	13.08	5 32 3.9	1 31.3	1.301 1021	1 4868	17 42.1
14	0 58 26.81	16.07	5 33 35.2	1 49.8	1.302 5889	1 4684	17 26.6
18	0 58 42.88	18.98	5 35 25.0	2 7.7	1.304 0573	1 4439	17 11.1
22	0 59 1.86	21.83	+5 37 32.7	2 25.2	1.305 5012	1 4127	16 55.7
26	0 59 23.69	24.58	5 39 57.9	2 41.8	1.306 9139	1 3758	16 40.4
30	0 59 48.27	27.24	5 42 39.7	2 58.0	1.308 2897	1 3331	16 25.1
Febr. 3	1 0 15.51	29.80	5 45 37.7	3 13.8	1.309 6228	1 2848	16 9.8
7	1 0 45.31	32.29	5 48 51.5	3 28.4	1.310 9076	1 2302	15 54.6
11	1 1 17.60	34.61	5 52 19.9	3 42.4	1.312 1378	1 1706	15 39.4
15	1 1 52.21	36.76	+5 56 2.3	3 55.2	1.313 3084	1 1064	15 24.2
19	1 2 28.97	38.81	5 59 57.5	4 7.0	1.314 4148	1 0388	15 9.1
23	1 3 7.78	40.70	6 4 4.5	4 18.2	1.315 4536	9676	14 54.0
27	1 3 48.48	42.45	6 8 22.7	4 28.3	1.316 4212	8927	14 39.0
März 2	1 4 30.93	44.07	6 12 51.0	4 37.6	1.317 3139	8145	14 24.0
6	1 5 15.00	45.53	6 17 28.6	4 45.6	1.318 1284	7332	14 9.0
10	1 6 0.53	46.82	+6 22 14.2	4 52.7	1.318 8616	6489	13 54.0
14	1 6 47.35	47.92	6 27 6.9	4 58.7	1.319 5105	5630	13 39.1
18	1 7 35.27	48.87	6 32 5.6	5 3.6	1.320 0735	4758	13 24.1
22	1 8 24.14	49.66	6 37 9.2	5 7.5	1.320 5493	3877	13 9.2
26	1 9 13.80	50.30	6 42 16.7	5 10.4	1.320 9370	2983	12 54.3
30	1 10 4.10	50.77	6 47 27.1	5 12.5	1.321 2353	2077	12 39.4
April 3	1 10 54.87	51.09	+6 52 39.6	5 13.4	1.321 4430	1164	12 24.5
7	1 11 45.96	51.21	6 57 53.0	5 13.1	1.321 5594	249	12 9.7
11	1 12 37.17	51.17	7 3 6.1	5 11.9	1.321 5843	664	11 54.8
15	1 13 28.34	50.97	7 8 18.0	5 9.6	1.321 5179	1565	11 39.9
19	1 14 19.31	50.60	7 13 27.6	5 6.5	1.321 3614	2453	11 25.0
23	1 15 9.91	50.10	7 18 34.1	5 2.4	1.321 1161	3337	11 10.1
27	1 16 0.01	49.43	+7 23 36.5	4 57.5	1.320 7824	4204	10 55.2
Mai 1	1 16 49.44	48.62	7 28 34.0	4 51.6	1.320 3620	5067	10 40.3
5	1 17 38.06	47.62	7 33 25.6	4 44.7	1.319 8553	5908	10 25.4
9	1 18 25.68	46.47	7 38 10.3	4 36.9	1.319 2645	6721	10 10.5
13	1 19 12.15	45.17	7 42 47.2	4 28.2	1.318 5924	7508	9 55.5
17	1 19 57.32	43.75	7 47 15.4	4 18.8	1.317 8416	8266	9 40.5
21	1 20 41.07	42.18	+7 51 34.2	4 8.7	1.317 0150	8993	9 25.5
25	1 21 23.25	40.50	7 55 42.9	3 58.0	1.316 1157	9693	9 10.5
29	1 22 3.75	38.66	7 59 40.9	3 46.2	1.315 1464	1 0363	8 55.4
Juni 2	1 22 42.41	36.68	8 3 27.1	3 33.9	1.314 1101	1 0992	8 40.3
6	1 23 19.09	34.59	8 7 1.0	3 20.7	1.313 0109	1 1582	8 25.2
10	1 23 53.68		+8 10 21.7		1.311 8527		8 10.1

Uranus 1932

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Juni 10	1 23 53.68	32.37	+8 10 21.7	3 7.1	1.311 8527	1 2120	8 10.1
14	1 24 26.05	30.06	8 13 28.8	2 52.8	1.310 6407	1 2614	7 54.9
18	1 24 56.11	27.64	8 16 21.6	2 38.0	1.309 3793	1 3060	7 39.6
22	1 25 23.75	25.15	8 18 59.6	2 23.0	1.308 0733	1 3462	7 24.4
26	1 25 48.90	22.55	8 21 22.6	2 7.2	1.306 7271	1 3813	7 9.1
30	1 26 11.45	19.86	8 23 29.8	1 51.1	1.305 3458	1 4110	6 53.7
Juli 4	1 26 31.31	17.09	+8 25 20.9	1 34.4	1.303 9348	1 4344	6 38.3
8	1 26 48.40	14.28	8 26 55.3	1 17.7	1.302 5004	1 4517	6 22.8
12	1 27 2.68	11.40	8 28 13.0	1 0.5	1.301 0487	1 4624	6 7.3
16	1 27 14.08	8.52	8 29 13.5	0 43.6	1.299 5863	1 4673	5 51.8
20	1 27 22.60	5.59	8 29 57.1	0 26.4	1.298 1190	1 4663	5 36.2
24	1 27 28.19	2.67	8 30 23.5	0 9.0	1.296 6527	1 4586	5 20.6
28	1 27 30.86	0.30	+8 30 32.5	0 8.4	1.295 1941	1 4446	5 4.9
Aug. 1	1 27 30.56	3.24	8 30 24.1	0 25.7	1.293 7495	1 4228	4 49.2
5	1 27 27.32	6.16	8 29 58.4	0 42.6	1.292 3267	1 3942	4 33.4
9	1 27 21.16	9.01	8 29 15.8	0 59.4	1.290 9325	1 3583	4 17.5
13	1 27 12.15	11.81	8 28 16.4	1 15.6	1.289 5742	1 3160	4 1.6
17	1 27 0.34	14.51	8 27 0.8	1 31.4	1.288 2582	1 2674	3 45.7
21	1 26 45.83	17.17	+8 25 29.4	1 46.9	1.286 9908	1 2122	3 29.8
25	1 26 28.66	19.71	8 23 42.5	2 1.4	1.285 7786	1 1504	3 13.8
29	1 26 8.95	22.15	8 21 41.1	2 15.8	1.284 6282	1 0815	2 57.7
Sept. 2	1 25 46.80	24.42	8 19 25.3	2 29.0	1.283 5467	1 0063	2 41.6
6	1 25 22.38	26.55	8 16 56.3	2 41.1	1.282 5404	9251	2 25.5
10	1 24 55.83	28.48	8 14 15.2	2 52.3	1.281 6153	8390	2 9.3
14	1 24 27.35	30.25	+8 11 22.9	3 2.5	1.280 7763	7483	1 53.1
18	1 23 57.10	31.84	8 8 20.4	3 11.5	1.280 0280	6525	1 36.9
22	1 23 25.26	33.22	8 5 8.9	3 19.5	1.279 3755	5532	1 20.6
26	1 22 52.04	34.38	8 1 49.4	3 26.1	1.278 8223	4492	1 4.3
30	1 22 17.66	35.31	7 58 23.3	3 31.3	1.278 3731	3420	0 48.0
Okt. 4	1 21 42.35	35.99	7 54 52.0	3 34.9	1.278 0311	2324	0 31.7
8	1 21 6.36	36.41	+7 51 17.1	3 37.1	1.277 7987	1216	0 15.4
12	1 20 29.95	36.59	7 47 40.0	3 37.8	1.277 6771	99	23 55.0
16	1 19 53.36	36.54	7 44 2.2	3 37.1	1.277 6672	1019	23 38.7
20	1 19 16.82	36.23	7 40 25.1	3 35.0	1.277 7691	2137	23 22.3
24	1 18 40.59	35.69	7 36 50.1	3 31.4	1.277 9828	3251	23 6.0
28	1 18 4.90	34.90	7 33 18.7	3 26.1	1.278 3079	4350	22 49.7
Nov. 1	1 17 30.00	33.81	+7 29 52.6	3 19.3	1.278 7429	5425	22 33.4
5	1 16 56.19	32.51	7 26 33.3	3 11.0	1.279 2854	6460	22 17.1
9	1 16 23.68	30.99	7 23 22.3	3 1.5	1.279 9314	7457	22 0.8
13	1 15 52.69	29.27	7 20 20.8	2 50.6	1.280 6771	8412	21 44.6
17	1 15 23.42	27.34	7 17 30.2	2 38.7	1.281 5183	9316	21 28.4
21	1 14 56.08		+7 14 51.5		1.282 4499		21 12.2

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Nov. 21	1 14 56.08	25.22	+7 14 51.5	2 25.6	1.282 4499	1 0176	21 12.2
25	1 14 30.86	22.91	7 12 25.9	2 11.3	1.283 4675	1 0978	20 56.1
29	1 14 7.95	20.46	7 10 14.6	1 55.9	1.284 5653	1 1710	20 40.0
Dez. 3	1 13 47.49	17.81	7 8 18.7	1 39.8	1.285 7363	1 2374	20 23.9
7	1 13 29.68	15.07	7 6 38.9	1 22.8	1.286 9737	1 2963	20 7.9
11	1 13 14.61	12.24	7 5 16.1	1 5.4	1.288 2700	1 3479	19 52.0
15	1 13 2.37	9.32	+7 4 10.7	0 47.4	1.289 6179	1 3925	19 36.1
19	1 12 53.05	6.33	7 3 23.3	0 29.1	1.291 0104	1 4300	19 20.2
23	1 12 46.72	3.27	7 2 54.2	0 10.4	1.292 4404	1 4598	18 4.4
27	1 12 43.45	0.15	7 2 43.8	0 8.7	1.293 9002	1 4816	18 48.6
31	1 12 43.30		+7 2 52.5		1.295 3818		18 32.9

Neptun 1932

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	′ ″			h m
Jan. −2	10 39 26.16	9.69	+ 9 19 28.8	1 6.5	1.472 5621	8757	4 12.7
+2	10 39 16.47	11.54	9 20 35.3	1 17.2	1.471 6864	8389	3 56.9
6	10 39 4.93	13.33	9 21 52.5	1 27.7	1.470 8475	7970	3 41.0
10	10 38 51.60	15.03	9 23 20.2	1 37.4	1.470 0505	7506	3 25.0
14	10 38 36.57	16.62	9 24 57.6	1 46.5	1.469 2999	7000	3 9.0
18	10 38 19.95	18.08	9 26 44.1	1 54.7	1.468 5999	6456	2 53.0
22	10 38 1.87	19.43	+ 9 28 38.8	2 2.3	1.467 9543	5880	2 37.0
26	10 37 42.44	20.68	9 30 41.1	2 9.1	1.467 3663	5273	2 21.0
30	10 37 21.76	21.77	9 32 50.2	2 15.2	1.466 8390	4632	2 4.9
Febr. 3	10 36 59.99	22.74	9 35 5.4	2 20.3	1.466 3758	3964	1 48.8
7	10 36 37.25	23.54	9 37 25.7	2 24.4	1.465 9794	3273	1 32.7
11	10 36 13.71	24.19	9 39 50.1	2 27.8	1.465 6521	2564	1 16.6
15	10 35 49.52	24.67	+ 9 42 17.9	2 29.9	1.465 3957	1845	1 0.5
19	10 35 24.85	25.01	9 44 47.8	2 31.2	1.465 2112	1115	0 44.3
23	10 34 59.84	25.16	9 47 19.0	2 31.5	1.465 0997	387	0 28.2
27	10 34 34.68	25.17	9 49 50.5	2 30.9	1.465 0610	344	0 12.0
März 2	10 34 9.51	25.03	9 52 21.4	2 29.4	1.465 0954	1077	23 51.8
6	10 33 44.48	24.72	9 54 50.8	2 26.8	1.465 2031	1803	23 35.7
10	10 33 19.76	24.23	+ 9 57 17.6	2 23.4	1.465 3834	2512	23 19.6
14	10 32 55.53	23.58	9 59 41.0	2 19.0	1.465 6346	3203	23 3.4
18	10 32 31.95	22.80	10 2 0.0	2 13.7	1.465 9549	3876	22 47.3
22	10 32 9.15	21.88	10 4 13.7	2 7.7	1.466 3425	4517	22 31.2
26	10 31 47.27	20.83	10 6 21.4	2 1.0	1.466 7942	5138	22 15.1
30	10 31 26.44	19.66	10 8 22.4	1 53.8	1.467 3080	5728	21 59.1
April 3	10 31 6.78	18.35	+10 10 16.2	1 45.5	1.467 8808	6288	21 43.0
7	10 30 48.43	16.93	10 12 1.7	1 36.8	1.468 5096	6810	21 27.0
11	10 30 31.50	15.41	10 13 38.5	1 27.5	1.469 1906	7294	21 11.0
15	10 30 16.09	13.78	10 15 6.0	1 17.7	1.469 9200	7730	20 55.0
19	10 30 2.31	12.11	10 16 23.7	1 7.4	1.470 6930	8129	20 39.1
23	10 29 50.20	10.36	10 17 31.1	0 57.1	1.471 5059	8487	20 23.2
27	10 29 39.84	8.53	+10 18 28.2	0 46.1	1.472 3546	8801	20 7.3
Mai 1	10 29 31.31	6.66	10 19 14.3	0 35.1	1.473 2347	9071	19 51.4
5	10 29 24.65	4.74	10 19 49.4	0 23.6	1.474 1418	9298	19 35.6
9	10 29 19.91	2.79	10 20 13.0	0 12.2	1.475 0716	9475	19 19.8
13	10 29 17.12	0.81	10 20 25.2	0 0.5	1.476 0191	9601	19 4.0
17	10 29 16.31	1.15	10 20 25.7	0 10.9	1.476 9792	9685	18 48.3
21	10 29 17.46	3.12	+10 20 14.8	0 22.4	1.477 9477	9731	18 32.6
25	10 29 20.58	5.09	10 19 52.4	0 33.9	1.478 9208	9726	18 16.9
29	10 29 25.67	7.05	10 19 18.5	0 45.3	1.479 8934	9683	18 1.3
Juni 2	10 29 32.72	8.98	10 18 33.2	0 56.5	1.480 8617	9597	17 45.7
6	10 29 41.70	10.90	10 17 36.7	1 7.5	1.481 8214	9463	17 30.1
10	10 29 52.60		+10 16 29.2		1.482 7677		17 14.5

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932		h m s	s	° ′ ″	′ ″			h m
Juni	10	10 29 52.60	12.76	+10 16 29.2	1 18.5	1.482 7677	9291	17 14.5
	14	10 30 5.36	14.56	10 15 10.7	1 28.8	1.483 6968	9079	16 59.0
	18	10 30 19.92	16.31	10 13 41.9	1 38.9	1.484 6047	8829	16 43.5
	22	10 30 36.23	18.01	10 12 3.0	1 48.6	1.485 4876	8552	16 28.1
	26	10 30 54.24	19.65	10 10 14.4	1 58.2	1.486 3428	8236	16 12.7
	30	10 31 13.89	21.23	10 8 16.2	2 7.3	1.487 1664	7887	15 57.3
Juli	4	10 31 35.12	22.72	+10 6 8.9	2 15.8	1.487 9551	7503	15 41.9
	8	10 31 57.84	24.14	10 3 53.1	2 23.9	1.488 7054	7087	15 26.6
	12	10 32 21.98	25.45	10 1 29.2	2 31.5	1.489 4141	6651	15 11.2
	16	10 32 47.43	26.68	9 58 57.7	2 38.6	1.490 0792	6183	14 55.9
	20	10 33 14.11	27.82	9 56 19.1	2 45.1	1.490 6975	5702	14 40.6
	24	10 33 41.93	28.86	9 53 34.0	2 51.1	1.491 2677	5193	14 25.4
	28	10 34 10.79	29.83	+ 9 50 42.9	2 56.7	1.491 7870	4662	14 10.1
Aug.	1	10 34 40.62	30.69	9 47 46.2	3 1.4	1.492 2532	4113	13 54.9
	5	10 35 11.31	31.41	9 44 44.8	3 5.6	1.492 6645	3547	13 39.7
	9	10 35 42.72	32.05	9 41 39.2	3 9.2	1.493 0192	2966	13 24.5
	13	10 36 14.77	32.56	9 38 30.0	3 12.0	1.493 3158	2377	13 9.3
	17	10 36 47.33	32.97	9 35 18.0	3 14.4	1.493 5535	1780	12 54.1
	21	10 37 20.30	33.28	+ 9 32 3.6	3 16.1	1.493 7315	1176	12 38.9
	25	10 37 53.58	33.49	9 28 47.5	3 17.0	1.493 8491	557	12 23.7
	29	10 38 27.07	33.57	9 25 30.5	3 17.2	1.493 9048	61	12 8.6
Sept.	2	10 39 0.64	33.51	9 22 13.3	3 16.9	1.493 8987	683	11 53.4
	6	10 39 34.15	33.36	9 18 56.4	3 15.7	1.493 8304	1304	11 38.2
	10	10 40 7.51	33.07	9 15 40.7	3 13.8	1.493 7000	1916	11 23.0
	14	10 40 40.58	32.68	+ 9 12 26.9	3 11.2	1.493 5084	2523	11 7.9
	18	10 41 13.26	32.18	9 9 15.7	3 8.1	1.493 2561	3123	10 52.7
	22	10 41 45.44	31.58	9 6 7.6	3 4.3	1.492 9438	3717	10 37.5
	26	10 42 17.02	30.84	9 3 3.3	2 59.7	1.492 5721	4300	10 22.3
	30	10 42 47.86	30.01	9 0 3.6	2 54.4	1.492 1421	4870	10 7.1
Okt.	4	10 43 17.87	29.03	8 57 9.2	2 48.3	1.491 6551	5418	9 51.8
	8	10 43 46.90	27.95	+ 8 54 20.9	2 41.6	1.491 1133	5945	9 36.6
	12	10 44 14.85	26.80	8 51 39.3	2 34.5	1.490 5188	6450	9 21.3
	16	10 44 41.65	25.53	8 49 4.8	2 26.6	1.489 8738	6928	9 6.0
	20	10 45 7.18	24.18	8 46 38.2	2 18.2	1.489 1810	7385	8 50.7
	24	10 45 31.36	22.71	8 44 20.0	2 9.1	1.488 4425	7815	8 35.4
	28	10 45 54.07	21.15	8 42 10.9	1 59.6	1.487 6610	8211	8 20.1
Nov.	1	10 46 15.22	19.50	+ 8 40 11.3	1 49.4	1.486 8399	8574	8 4.7
	5	10 46 34.72	17.78	8 38 21.9	1 38.8	1.485 9825	8893	7 49.3
	9	10 46 52.50	15.99	8 36 43.1	1 27.7	1.485 0932	9176	7 33.8
	13	10 47 8.49	14.15	8 35 15.4	1 16.4	1.484 1756	9420	7 18.4
	17	10 47 22.64	12.24	8 33 59.0	1 4.9	1.483 2336	9623	7 2.9
	21	10 47 34.88		+ 8 32 54.1		1.482 2713		6 47.4

Neptun 1932

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1932	h m s	s	° ′ ″	″			h m
Nov. 21	10 47 34.88	10.29	+8 32 54.1	52.7	1.482 2713	9785	6 47.4
25	10 47 45.17	8.27	8 32 1.4	40.5	1.481 2928	9903	6 31.8
29	10 47 53.44	6.24	8 31 20.9	28.0	1.480 3025	9965	6 16.2
Dez. 3	10 47 59.68	4.17	8 30 52.9	15.5	1.479 3060	9980	6 0.6
7	10 48 3.85	2.11	8 30 37.4	3.0	1.478 3080	9946	5 44.9
11	10 48 5.96	0.04	8 30 34.4	9.6	1.477 3134	9864	5 29.2
15	10 48 6.00	1.99	+8 30 44.0	21.8	1.476 3270	9732	5 13.5
19	10 48 4.01	4.02	8 31 5.8	34.1	1.475 3538	9551	4 57.7
23	10 47 59.99	6.04	8 31 39.9	46.1	1.474 3987	9323	4 41.9
27	10 47 53.95	8.02	8 32 26.0	58.0	1.473 4664	9039	4 26.1
31	10 47 45.93		+8 33 24.0		1.472 5625		4 10.2

Mittleres Äquinoktium 1925.0

MERKUR 1932

0^h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	0^h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
1932					1932				
Jan. −3	9.5172	128°.14	+0°.07	+6°.91	Juni 30	9.5782	172°.29	−0°.20	+5°.76
+2	9.5504	154.08	−0.12	+6.71	Juli 5	9.6090	191.78	−0.20	+4.10
7	9.5843	176.18	−0.21	+5.47	10	9.6339	208.82	−0.13	+2.24
12	9.6141	195.14	−0.19	+3.76	15	9.6522	224.21	−0.02	+0.39
17	9.6378	211.82	−0.11	+1.89	20	9.6638	238.57	+0.08	−1.36
22	9.6548	226.97	0.00	+0.06	25	9.6688	252.40	+0.16	−2.97
27	9.6652	241.19	+0.10	−1.67	30	9.6673	266.16	+0.21	−4.40
Febr. 1	9.6690	254.98	+0.18	−3.25	Aug. 4	9.6593	280.28	+0.21	−5.59
6	9.6663	268.77	+0.21	−4.64	9	9.6446	295.20	+0.15	−6.49
11	9.6570	283.00	+0.20	−5.79	14	9.6233	311.47	+0.04	−6.97
16	9.6411	298.14	+0.13	−6.61	19	9.5955	329.70	−0.09	−6.84
21	9.6185	314.72	+0.02	−7.00	24	9.5626	350.65	−0.20	−5.87
26	9.5896	333.40	−0.11	−6.74	29	9.5284	15.02	−0.19	−3.77
März 2	9.5562	354.94	−0.21	−5.56	Sept. 3	9.5001	43.09	−0.03	−0.53
7	9.5223	20.01	−0.18	−3.24	8	9.4879	73.98	+0.17	+3.14
12	9.4963	48.73	+0.01	+0.16	13	9.4973	105.26	+0.19	+5.94
17	9.4880	79.91	+0.19	+3.77	18	9.5240	134.15	+0.02	+6.99
22	9.5013	110.93	+0.17	+6.27	23	9.5580	159.22	−0.15	+6.51
27	9.5301	139.16	−0.01	+7.00	28	9.5913	180.55	−0.21	+5.12
April 1	9.5644	163.49	−0.17	+6.30	Okt. 3	9.6199	198.95	−0.18	+3.35
6	9.5971	184.21	−0.21	+4.81	8	9.6421	215.24	−0.09	+1.49
11	9.6245	202.14	−0.17	+3.00	13	9.6577	230.14	+0.02	−0.33
16	9.6455	218.12	−0.07	+1.14	18	9.6666	244.22	+0.12	−2.03
21	9.6599	232.83	+0.04	−0.66	23	9.6690	257.98	+0.19	−3.57
26	9.6675	246.82	+0.13	−2.34	28	9.6648	271.83	+0.21	−4.91
Mai 1	9.6687	260.56	+0.20	−3.84	Nov. 2	9.6541	286.21	+0.19	−5.98
6	9.6633	274.47	+0.21	−5.14	7	9.6367	301.61	+0.11	−6.74
11	9.6514	289.01	+0.18	−6.17	12	9.6127	318.60	−0.01	−7.00
16	9.6327	304.66	+0.09	−6.83	17	9.5826	337.84	−0.14	−6.57
21	9.6075	322.01	−0.03	−6.98	22	9.5486	0.10	−0.21	−5.16
26	9.5764	341.76	−0.16	−6.39	27	9.5156	25.99	−0.15	−2.57
31	9.5421	4.67	−0.21	−4.77	Dez. 2	9.4927	55.40	+0.06	+0.98
Juni 5	9.5103	31.26	−0.12	−1.96	7	9.4892	86.80	+0.21	+4.46
10	9.4904	61.22	+0.10	+1.68	12	9.5066	117.40	+0.14	+6.58
15	9.4910	92.70	+0.21	+4.99	17	9.5375	144.81	−0.05	+6.95
20	9.5117	122.84	+0.10	+6.78	22	9.5719	168.29	−0.19	+6.02
25	9.5439	149.52	−0.09	+6.85	27	9.6036	188.33	−0.21	+4.43
30	9.5782	172.29	−0.20	+5.76	32	9.6297	205.77	−0.15	+2.60

$\Omega = 47^\circ.442$ $\quad i = 7^\circ.003$ $\quad m = \frac{1}{6000000}$

Mittleres Äquinoktium 1925.0

0^h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
	VENUS 1932				MARS 1932			
1932		°	in 0.°001	°		°	in 0.°001	°
Jan. −3	9.86185	341.198	+ 8	−3.382	0.15143	289.379	+13	−1.609
+7	9.86134	357.079	−18	−3.330	0.14873	295.451	11	1.696
17	9.86067	12.998	−41	−3.024	0.14634	301.594	9	1.765
27	9.85990	28.958	−50	−2.484	0.14431	307.800	6	1.815
Febr. 6	9.85908	44.962	−44	−1.750	0.14267	314.060	+ 3	1.843
16	9.85828	61.012	−25	−0.877	0.14144	320.362	− 1	−1.849
26	9.85756	77.112	+ 2	+0.068	0.14064	326.693	4	1.833
März 7	9.85697	93.261	+28	+1.010	0.14030	333.040	7	1.794
17	9.85657	109.456	+46	+1.874	0.14041	339.390	10	1.733
27	9.85639	125.687	+50	+2.590	0.14097	345.730	12	1.651
April 6	9.85644	141.938	+37	+3.100	0.14198	352.047	−14	−1.550
16	9.85672	158.190	+13	+3.363	0.14341	358.327	15	1.430
26	9.85720	174.416	−14	+3.357	0.14524	4.560	15	1.294
Mai 6	9.85785	190.596	−38	+3.086	0.14745	10.734	14	1.144
16	9.85862	206.710	−50	+2.573	0.14999	16.840	13	0.983
26	9.85943	222.751	−46	+1.861	0.15283	22.871	−12	−0.813
Juni 5	9.86024	238.717	−29	+1.008	0.15593	28.819	10	0.637
15	9.86098	254.617	− 3	+0.080	0.15925	34.679	7	0.456
25	9.86158	270.468	+24	−0.851	0.16274	40.447	4	0.274
Juli 5	9.86202	286.288	+44	−1.715	0.16636	46.122	− 1	−0.091
15	9.86225	302.096	+50	−2.448	0.17007	51.702	+ 1	+0.089
25	9.86226	317.911	+42	−2.996	0.17383	57.186	4	0.265
Aug. 4	9.86204	333.745	+22	−3.317	0.17760	62.576	7	0.436
14	9.86162	349.609	− 6	−3.387	0.18135	67.874	9	0.600
24	9.86102	5.509	−32	−3.199	0.18506	73.082	11	0.756
Sept. 3	9.86029	21.448	−48	−2.765	0.18869	78.203	+13	+0.904
13	9.85949	37.429	−49	−2.116	0.19220	83.240	14	1.042
23	9.85867	53.456	−36	−1.301	0.19559	88.199	15	1.170
Okt. 3	9.85789	69.531	−11	−0.381	0.19883	93.083	15	1.288
13	9.85723	85.656	+16	+0.572	0.20190	97.897	15	1.395
23	9.85673	101.830	+39	+1.482	0.20479	102.645	+14	+1.491
Nov. 2	9.85644	118.046	+50	+2.276	0.20748	107.334	13	1.575
12	9.85637	134.292	+45	+2.889	0.20997	111.967	12	1.648
22	9.85654	150.547	+26	+3.272	0.21223	116.550	11	1.710
Dez. 2	9.85693	166.790	0	+3.394	0.21426	121.088	9	1.760
12	9.85751	182.995	−29	+3.245	0.21606	125.587	+ 7	+1.799
22	9.85823	199.144	−46	+2.842	0.21762	130.051	5	1.827
32	9.85903	215.221	−50	+2.217	0.21892	134.487	+ 2	+1.844

Venus: $\Omega = 76.^\circ005$ $\quad i = 3.^\circ394$ $\quad m = \frac{1}{408\,000}$

Mars: $\Omega = 48.^\circ979$ $\quad i = 1.^\circ850$ $\quad m = \frac{1}{3\,093\,500}$

Mittleres Äquinoktium 1925.0

0h Welt-Zeit	log R	Länge	log r	Heliozentr. Länge	Red. auf d. Bahn	Heliozentr. Breite
	ERDE 1932		JUPITER 1932			
1932		°		°	in 0.0001 °	°
Jan. −3	9.99272	95.193	0.725810	134.2472	+70	+0.7420
+7	9.99268	105.386	0.726069	135.0408	70	0.7569
17	9.99288	115.575	0.726325	135.8335	71	0.7715
27	9.99329	125.749	0.726579	136.6253	72	0.7860
Febr. 6	9.99391	135.900	0.726830	137.4161	72	0.8004
16	9.99471	146.017	0.727079	138.2060	+73	+0.8146
26	9.99567	156.093	0.727326	138.9951	73	0.8286
März 7	9.99675	166.122	0.727570	139.7832	73	0.8425
17	9.99793	176.098	0.727812	140.5706	73	0.8562
27	9.99916	186.019	0.728051	141.3570	74	0.8697
April 6	0.00042	195.884	0.728288	142.1426	+74	+0.8830
16	0.00165	205.692	0.728522	142.9273	74	0.8961
26	0.00282	215.445	0.728753	143.7112	74	0.9091
Mai 6	0.00391	225.148	0.728981	144.4942	74	0.9219
16	0.00488	234.805	0.729207	145.2765	74	0.9345
26	0.00571	244.421	0.729430	146.0579	+74	+0.9469
Juni 5	0.00637	254.005	0.729650	146.8386	74	0.9591
15	0.00685	263.564	0.729868	147.6184	74	0.9711
25	0.00713	273.106	0.730083	148.3975	74	0.9829
Juli 5	0.00721	282.639	0.730294	149.1759	74	0.9946
15	0.00709	292.174	0.730503	149.9534	+73	+1.0060
25	0.00676	301.719	0.730709	150.7303	73	1.0173
Aug. 4	0.00624	311.282	0.730912	151.5064	72	1.0283
14	0.00554	320.873	0.731112	152.2818	72	1.0392
24	0.00468	330.498	0.731309	153.0565	71	1.0498
Sept. 3	0.00368	340.164	0.731503	153.8305	+71	+1.0603
13	0.00257	349.877	0.731693	154.6038	70	1.0706
23	0.00139	359.643	0.731881	155.3765	69	1.0806
Okt. 3	0.00015	9.463	0.732065	156.1485	69	1.0904
13	9.99890	19.339	0.732247	156.9199	68	1.1001
23	9.99768	29.272	0.732425	157.6906	+67	+1.1095
Nov. 2	9.99652	39.260	0.732600	158.4607	66	1.1187
12	9.99546	49.298	0.732771	159.2302	65	1.1277
22	9.99453	59.383	0.732939	159.9991	64	1.1365
Dez. 2	9.99376	69.508	0.733104	160.7674	63	1.1451
12	9.99319	79.664	0.733266	161.5352	+62	+1.1535
22	9.99282	89.842	0.733424	162.3024	61	1.1617
32	9.99267	100.032	0.733579	163.0691	+60	+1.1697

Erde: $m = \frac{1}{329\,390}$ Jupiter: $\Omega = 99.6906°$ $i = 1.3073°$ $m = \frac{1}{1047.35}$

Mittleres Äquinoktium 1925.0

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
SATURN 1932				
			in 0°.0001	
1931 Dez. 28	1.000041	294°.9442	+ 19	−0°.0844
1932 Febr. 6	0.999833	296.1581	30	0.1371
März 17	0.999616	297.3732	41	0.1899
April 26	0.999388	298.5895	53	0.2426
Juni 5	0.999151	299.8072	64	0.2953
Juli 15	0.998903	301.0264	75	0.3479
Aug. 24	0.998646	302.2470	86	0.4003
Okt. 3	0.998380	303.4691	97	0.4527
Nov. 12	0.998104	304.6928	107	0.5050
1932 Dez. 22	0.997819	305.9182	118	0.5570
1933 Jan. 31	0.997524	307.1452	+128	−0.6089

$\Omega = 113°.0016 \quad i = 2°.4913 \quad m = \frac{1}{3501.6}$

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
URANUS 1932				
			in 0°.001	
1931 Dez. 28	1.30053	18°.121	− 2	−0°.637
1932 Febr. 6	1.30045	18.553	2	0.634
März 17	1.30037	18.985	2	0.631
Apr. 26	1.30029	19.418	2	0.627
Juni 5	1.30020	19.851	2	0.624
Juli 15	1.30012	20.284	2	0.620
Aug. 24	1.30004	20.717	2	0.617
Okt. 3	1.29995	21.150	3	0.613
Nov. 12	1.29986	21.583	3	0.610
1932 Dez. 22	1.29977	22.017	3	0.606
1933 Jan. 31	1.29968	22.450	− 3	−0.602

$\Omega = 73°.616 \quad i = 0°.773 \quad m = \frac{1}{22869}$

0h Welt-Zeit	log r	Heliozentr. Länge	Red. auf die Bahn	Heliozentr. Breite
NEPTUN 1932				
			in 0°.001	
1931 Dez. 28	1.47953	156°.151	+11	+0°.757
1932 Febr. 6	1.47955	156.389	11	0.763
März 17	1.47956	156.627	11	0.770
Apr. 26	1.47958	156.865	11	0.777
Juni 5	1.47959	157.103	11	0.783
Juli 15	1.47961	157.341	11	0.790
Aug. 24	1.47962	157.579	11	0.797
Okt. 3	1.47963	157.817	11	0.803
Nov. 12	1.47965	158.055	11	0.810
1932 Dez. 22	1.47966	158.293	11	0.816
1933 Jan. 31	1.47967	158.531	+11	+0.823

$\Omega = 130°.954 \quad i = 1°.777 \quad m = \frac{1}{19314}$

Mittlere und Scheinbare Sternörter 1932

Reduktionsgrößen

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
905	[2 Ceti]	4.62	A 0	0 0 15.442	+3.0736	+ 12	−17 42 52.27	+20.040	− 4
1	α Androm.	2.15	A 0 p	0 4 52.094	+3.0991	+ 107	+28 42 54.17	+19.879	− 161
2	β Cassiopeiae	2.42	F 5	0 5 32.216	+3.1939	+ 677	+58 46 29.01	+19.859	− 180
3	ε Phoenicis	3.94	K 0	0 5 57.810	+3.0467	+ 99	−46 7 22.10	+19.845	− 192
4	[22 Androm.]	5.08	F 0	0 6 46.713	+3.1142	+ 8	+45 41 37.78	+20.032	− 3
5	[κ^2 Sculptoris]	5.56	K 0	0 8 7.395	+3.0479	+ 4	−28 10 43.35	+20.037	+ 6
6	[ϑ Sculptoris]	5.19	F 5	0 8 16.653	+3.0489	+ 104	−35 30 49.68	+20.155	+ 124
7	γ Pegasi	2.87	B 2	0 9 43.883	+3.0880	+ 1	+14 48 19.76	+20.012	− 14
8	[Br. 6]	6.23	B 9	0 12 20.629	+3.3810	+ 68	+76 34 22.88	+20.017	+ 1
9	ι Ceti	3.75	K 0	0 15 57.793	+3.0564	− 15	− 9 12 3.00	+19.963	− 32
10	ζ Tucanae	4.34	F 8	0 16 32.305	+3.1331	+2694	−65 16 28.29	+21.146	+1154
11	β Hydri	2.90	G 0	0 22 12.451	+3.1766	+6935	−77 38 13.90	+20.268	+ 318
12	α Phoenicis	2.44	K 0	0 22 55.534	+2.9667	+ 168	−42 40 31.51	+19.535	− 409
13	12 Ceti	6.04	K 5	0 26 34.109	+3.0620	+ 8	− 4 19 58.47	+19.901	− 8
14	[Ceti 49 G.]	5.23	A 3	0 26 58.753	+3.0000	− 25	−24 9 49.84	+19.915	+ 9
15	[λ^1 Phoenicis]	4.88	A 2	0 28 8.357	+2.8957	+ 123	−49 10 46.54	+19.905	+ 12
16	[κ Cassiop.]	4.24	B 0	0 29 7.152	+3.4001	+ 11	+62 33 24.28	+19.886	+ 3
17	ζ Cassiopeiae	3.72	B 3	0 33 10.288	+3.3359	+ 23	+53 31 22.45	+19.827	− 7
18	π Androm.	4.44	B 3	0 33 14.602	+3.2017	+ 17	+33 20 42.90	+19.834	0
19	[ε Androm.]	4.52	G 5	0 34 57.429	+3.1679	− 173	+28 56 33.96	+19.560	− 251
20	δ Androm.	3.49	K 2	0 35 41.174	+3.2055	+ 106	+30 29 21.08	+19.718	− 84
21	α Cassiopeiae	2.47	K 0	0 36 38.118	+3.3962	+ 60	+56 9 52.86	+19.759	− 29
22	β Ceti	2.24	K 0	0 40 10.611	+3.0116	+ 160	−18 21 34.60	+19.776	+ 39
23	[η Phoenicis]	4.53	A 0	0 40 18.314	+2.7017	+ 5	−57 50 10.02	+19.727	− 8
26	[λ^2 Sculptoris]	5.97	K 0	0 40 54.873	+2.8999	+ 178	−38 47 46.45	+19.840	+ 114
25	o Cassiopeiae	4.70	B 2	0 40 55.586	+3.3379	+ 22	+47 54 44.82	+19.717	− 8
24	21 Cassiopeiae	5.59	A 2	0 41 7.286	+3.9339	− 57	+74 37 0.02	+19.699	− 23
27	ζ Androm.	4.30	K 0	0 43 43.776	+3.1777	− 75	+23 53 51.13	+19.602	− 79
28	[δ Piscium]	4.55	K 5	0 45 9.115	+3.1112	+ 52	+ 7 12 55.00	+19.611	− 46
31	[λ Hydri]	4.96	K 5	0 46 14.508	+2.0923	+ 397	−75 17 36.32	+19.611	− 27
29	[Br. 82]	5.45	F 2 + A 2	0 46 34.987	+3.6289	+ 59	+63 52 39.84	+19.627	− 5
30	[19 Ceti]	5.24	F 5	0 46 43.231	+3.0044	− 159	−11 0 36.89	+19.407	− 223
34	[λ^2 Tucanae]	5.34	K 0	0 52 27.983	+2.2412	− 33	−69 53 40.73	+19.476	− 45
32	γ Cassiopeiae	2.25	B 0 p	0 52 35.291	+3.6105	+ 37	+60 20 55.98	+19.515	− 4
33	μ Androm.	3.94	A 2	0 52 58.294	+3.3261	+ 129	+38 7 51.24	+19.547	+ 36
35	α Sculptoris	4.39	B 5	0 55 19.777	+2.8901	− 5	−29 43 29.40	+19.458	− 5
36	ε Piscium	4.45	K 0	0 59 24.697	+3.1126	− 55	+ 7 31 28.04	+19.405	+ 30
37	[26 Ceti]	6.07	F 0	1 0 18.963	+3.0871	+ 81	+ 1 0 9.63	+19.315	− 39
38	β Phoenicis	3.35	K 0	1 3 3.012	+2.6769	− 56	−47 4 58.13	+19.275	− 15
39	[ι Tucanae]	5.32	K 0	1 4 37.304	+2.3796	+ 100	−62 8 17.34	+19.249	− 4

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
40	[η Ceti]	3.60	K o	1 5 10.078	+3.0169	+ 137	−10 32 32.38	+19.108	−132
42	β Androm.	2.37	M a	1 5 55.080	+3.3560	+ 151	+35 15 37.82	+19.108	−113
41	[44 H. Cephei]	5.68	A o	1 6 19.508	+5.1270	+ 334	+79 18 46.07	+19.220	+ 9
43	[τ Piscium]	4.70	K o	1 7 54.570	+3.3013	+ 56	+29 43 44.24	+19.129	− 41
44	[Sculpt. 102 G.]	5.91	A 5	1 9 37.412	+2.7621	+ 39	−38 12 59.37	+19.099	− 27
45	υ Piscium	4.67	A 2	1 15 43.392	+3.2944	+ 15	+26 54 25.64	+18.949	− 11
47	ϑ Ceti	3.83	K o	1 20 37.424	+2.9983	− 55	− 8 32 1.57	+18.603	−214
46	[ψ Cassiop.]	4.96	K o	1 21 6.145	+4.2198	+ 135	+67 46 33.04	+18.835	+ 32
48	δ Cassiopeiae	2.80	A 5	1 21 20.998	+3.9134	+ 399	+59 52 57.21	+18.751	− 43
49	[γ Phoenicis]	3.40	K 5	1 25 24.757	+2.6047	− 38	−43 39 58.84	+18.450	−218
50	η Piscium	3.72	G 5	1 27 50.443	+3.2083	+ 15	+14 59 44.70	+18.583	− 7
51	40 Cassiopeiae	5.50	K o	1 33 2.483	+4.7646	− 20	+72 41 39.83	+18.409	− 6
53	[Hydri 14 G.]	6.06	G 5	1 33 10.892	+0.3848	− 70	−78 50 59.68	+18.282	−128
52	υ Persei	3.77	K o	1 33 48.424	+3.6758	+ 64	+48 17 3.67	+18.275	−113
54	α Eridani	0.60	B 5	1 35 11.080	+2.2361	+ 122	−57 34 54.74	+18.302	− 38
55	43 Cassiopeiae	5.54	A o p	1 37 16.573	+4.4235	+ 88	+67 42 0.04	+18.264	− 2
56	[ν Piscium]	4.68	K o	1 37 53.411	+3.1211	− 16	+ 5 8 38.54	+18.245	+ 2
58	[Sculpt. 129 G.]	5.64	A o	1 39 3.076	+2.6427	− 57	−37 10 29.70	+18.178	− 23
57	φ Persei	4.19	B o p	1 39 23.167	+3.7530	+ 26	+50 20 48.81	+18.174	− 15
59	τ Ceti	3.65	K o	1 40 54.526	+2.7870	−1194	−16 17 42.44	+18.985	+853
60	ο Piscium	4.50	K o	1 41 47.989	+3.1667	+ 47	+ 8 48 58.00	+18.149	+ 50
61	Lac. ε Sculpt.	5.39	F o	1 42 27.611	+2.8086	+ 99	−25 23 32.06	+17.999	− 75
62	ζ Ceti	3.92	K o	1 48 6.173	+2.9607	+ 22	−10 40 13.37	+17.821	− 34
64	α Trianguli	3.58	F 5	1 49 11.956	+3.4173	+ 11	+29 14 53.85	+17.579	−233
63	ε Cassiopeiae	3.44	B 3	1 49 28.855	+4.3013	+ 50	+63 20 10.20	+17.785	− 15
65	ξ Piscium	4.84	K o	1 50 1.977	+3.1050	+ 13	+ 2 51 8.63	+17.797	+ 19
66	β Arietis	2.72	A 5	1 50 52.715	+3.3116	+ 65	+20 28 34.85	+17.635	−109
67	ψ Phoenicis	4.41	M b	1 50 55.242	+2.4052	− 94	−46 38 7.59	+17.641	−101
69	[η^2 Hydri]	4.72	K o	1 53 12.536	+1.5182	+ 119	−67 58 53.20	+17.727	+ 79
68	χ Eridani	3.73	G 5	1 53 18.677	+2.3340	+ 712	−51 56 50.02	+17.914	+270
72	α Hydri	3.02	F o	1 56 37.588	+1.8897	+ 361	−61 54 1.53	+17.525	+ 21
71	υ Ceti	4.18	M a	1 56 48.051	+2.8264	+ 91	−21 24 23.91	+17.483	− 14
70	50 Cassiopeiae	4.06	A 2	1 57 35.212	+5.0938	− 91	+72 5 36.32	+17.488	+ 25
73	γ Androm.	2.28 5.08	K o A o	1 59 42.963	+3.6776	+ 43	+42 0 15.16	+17.317	− 54
74	α Arietis	2.23	K 2	2 3 20.081	+3.3794	+ 137	+23 8 30.30	+17.068	−143
75	β Trianguli	3.08	A 5	2 5 29.394	+3.5662	+ 122	+34 39 59.43	+17.074	− 40
77	[6 Persei]	5.40	K o	2 9 4.216	+3.9829	+ 368	+50 45 3.19	+16.779	−169
76	55 Cassiopeiae	6.15	F 5 + A 2	2 9 7.181	+4.6905	− 10	+66 12 24.97	+16.949	+ 3
78	Lac. μ Forn.	5.24	A o	2 9 54.844	+2.6424	+ 13	−31 2 32.12	+16.911	+ 2
79	[γ Trianguli]	4.07	A o	2 13 15.880	+3.5631	+ 37	+33 32 1.32	+16.706	− 44

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Verände-rung	Jährl. Eigen-bew. in 0s.0001	Dekl. 1932.0	Jährl. Verände-rung	Jährl. Eigen-bew. in 0".001
		M		h m s	s		° ' "	"	
80	67 Ceti	5.70	G 5	2 13 35.405	+2.9915	+ 55	− 6 44 5.29	+16.625	−110
82	[φ Eridani]	3.78	B 8	2 14 4.755	+2.1424	+ 81	−51 49 35.68	+16.675	− 36
81	[ϑ Arietis]	5.69	A 0	2 14 20.316	+3.3350	− 10	+19 35 14.69	+16.697	− 2
83	[κ Fornacis]	5.37	F 5	2 19 25.853	+2.7451	+ 142	−24 7 28.92	+16.385	− 63
84	[λ Horologii]	5.47	F 2	2 22 59.773	+1.6770	− 95	−60 36 57.43	+16.130	−137
86	[κ Eridani]	4.44	B 5	2 24 29.469	+2.1976	− 2	−48 0 31.24	+16.168	− 23
85	ξ² Ceti	4.34	A 0	2 24 32.433	+3.1884	+ 26	+ 8 9 22.14	+16.184	− 4
88	[λ¹ Fornacis]	5.88	K 0	2 30 16.775	+2.4993	− 43	−34 56 54.92	+15.855	− 32
87	36 H. Cassiop.	5.34	K 0	2 31 31.438	+5.6728	− 60	+72 31 21.04	+15.842	+ 21
90	μ Hydri	5.29	K 0	2 33 4.080	−1.3048	+ 469	−79 24 22.46	+15.704	− 33
89	ν Arietis	5.36	A 2	2 34 57.003	+3.4043	− 9	+21 40 6.06	+15.619	− 16
91	δ Ceti	4.04	B 2	2 35 59.686	+3.0741	+ 7	+ 0 2 9.77	+15.575	− 2
95	[ε Hydri]	4.26	B 9	2 38 32.216	+0.9194	+ 168	−68 33 29.02	+15.441	+ 5
92	[Br. 366]	5.84	A 2	2 38 56.780	+5.1415	+ 25	+67 32 14.13	+15.385	− 29
94	[35 Arietis]	4.58	B 3	2 39 27.332	+3.5177	+ 4	+27 25 7.95	+15.378	− 7
93	ϑ Persei	4.22	F 8	2 39 32.630	+4.0913	+ 346	+48 56 31.29	+15.292	− 89
96	[γ Ceti]	3.58	A 2	2 39 46.469	+3.1073	− 98	+ 2 57 0.50	+15.219	−148
97	π Ceti	4.39	B 5	2 40 53.116	+2.8546	− 8	−14 8 44.87	+15.296	− 9
98	μ Ceti	4.36	F 0	2 41 15.767	+3.2415	+ 189	+ 9 49 40.79	+15.252	− 31
99	[η Persei]	3.93	K 0	2 45 43.301	+4.3678	+ 28	+55 36 52.69	+15.018	− 11
100	41 Arietis	3.68	B 8	2 45 58.536	+3.5288	+ 51	+26 58 52.81	+14.900	−113
101	β Fornacis	4.50	K 0	2 46 14.637	+2.5103	+ 63	−32 41 26.68	+15.157	+159
102	τ² Eridani	4.81	K 0	2 47 57.207	+2.7208	− 39	−21 17 1.22	+14.869	− 29
103	τ Persei	4.06	G 0 + A 5	2 49 25.402	+4.2459	+ 3	+52 29 7.92	+14.811	− 2
104	η Eridani	4.05	K 0	2 53 6.243	+2.9303	+ 52	− 9 10 4.41	+14.375	−218
106	ϑ Eridani	3.42 4.42	A 2	2 55 40.837	+2.2724	− 67	−40 34 34.85	+14.466	+ 28
105	47 H. Cephei	5.66	M a	2 56 57.909	+7.9270	− 113	+79 9 9.59	+14.382	+ 22
107	α Ceti	2.82	M a	2 58 43.322	+3.1348	− 9	+ 3 49 26.24	+14.176	− 76
108	γ Persei	3.08	F 5 + A 3	2 59 51.484	+4.3373	+ 2	+53 14 29.58	+14.178	− 4
109	*ρ Persei	var.	M b	3 0 48.676	+3.8407	+ 114	+38 34 41.06	+14.020	−103
110	μ Horologii	5.16	F 0	3 2 0.402	+1.4103	− 117	−60 0 4.01	+13.981	− 68
113	[ϑ Hydri]	5.52	B 8	3 2 6.050	+0.1139	+ 51	−72 10 4.45	+14.065	+ 22
111	*β Persei	var.	B 8	3 3 44.174	+3.8994	+ 7	+40 41 41.93	+13.939	− 1
112	[ι Persei]	4.17	G 0	3 4 8.882	+4.3230	+1297	+49 21 17.74	+13.831	− 84
114	δ Arietis	4.53	K 0	3 7 44.176	+3.4286	+ 106	+19 28 14.62	+13.683	− 4
117	12 Eridani	3.95	F 8	3 9 10.851	+2.5470	+ 241	−29 15 15.47	+14.238	+644
116	[94 Ceti]	5.14	F 8	3 9 18.136	+3.0617	+ 136	− 1 26 57.84	+13.525	− 62
118	[Horol. 38 G.]	5.72	N a	3 10 49.527	+1.5163	− 5	−57 34 33.18	+13.482	− 6
115	48 H. Cephei	5.50	F 0	3 11 37.197	+7.5593	+ 183	+77 29 15.70	+13.393	− 44
119	[e Eridani]	4.30	G 5	3 17 12.750	+2.3958	+2785	−43 19 45.31	+13.800	+730

Nr. 109. Größe: Max. 3.3, Min. 4.1 Nr. 111. Größe: Max. 2.3, Min. 3.5

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
120	α Persei	1.90	F 5	3 19 27.428	+4.2771	+ 29	+49 37 14.31	+12.895	− 26
121	ο Tauri	3.80	G 5	3 21 9.064	+3.2275	− 44	+ 8 47 26.45	+12.731	− 76
123	[ξ Tauri]	3.75	B 8	3 23 28.847	+3.2502	+ 39	+ 9 29 47.85	+12.605	− 45
122	2 H. Camelop.	4.42	B 9 p	3 23 32.741	+4.8475	− 1	+59 42 18.72	+12.652	+ 6
124	[σ Persei]	4.55	K 0	3 25 46.244	+4.2247	+ 9	+47 45 43.32	+12.517	+ 23
125	*f* Tauri	4.28	K 0	3 27 6.927	+3.3109	+ 13	+12 42 17.10	+12.396	− 5
126	[κ Reticuli]	4.80	F 5	3 28 10.905	+1.0406	+514	−63 10 37.26	+12.688	+361
127	ε Eridani	3.81	K 0	3 29 43.542	+2.8264	−658	− 9 41 15.03	+12.234	+ 13
128	[Horol. 45 G.]	5.60	K 0	3 30 32.793	+1.7844	+ 48	−50 36 31.45	+12.245	+ 80
130	[*y* Eridani]	4.58	K 0	3 34 39.193	+2.1520	− 16	−40 29 48.79	+11.853	− 24
129	[Grb 716]	5.32	M a	3 36 14.122	+5.1940	− 21	+62 59 53.87	+11.787	+ 22
131	δ Persei	3.10	B 5	3 38 4.449	+4.2667	+ 33	+47 34 18.11	+11.599	− 35
133	[δ Fornacis]	4.93	B 5	3 39 32.563	+2.3853	− 5	−32 9 17.39	+11.537	+ 7
135	[δ Eridani]	3.72	K 0	3 39 59.360	+2.8737	− 64	− 9 59 32.95	+12.245	+747
132	[ο Persei]	3.94	B 1	3 40 2.943	+3.7598	+ 8	+32 4 26.95	+11.476	− 17
134	ν Persei	3.93	F 5	3 40 34.007	+4.0723	− 6	+42 21 54.84	+11.451	− 5
136	[17 Tauri]	3.81	B 5 p	3 40 49.996	+3.5609	+ 17	+23 54 3.24	+11.393	− 44
137	[24 Eridani]	5.09	B 8	3 41 3.160	+3.0467	+ 1	− 1 22 35.43	+11.413	− 8
138	5 H. Camelop.	4.67	A 0	3 43 8.822	+6.3093	+ 42	+71 7 30.51	+11.230	− 40
141	β Reticuli	3.80	K 0	3 43 20.413	+0.7473	+477	−65 1 15.02	+11.317	+ 61
139	η Tauri	2.96	B 5 p	3 43 26.294	+3.5647	+ 17	+23 53 46.25	+11.202	− 48
140	τ^6 Eridani	4.33	F 8	3 43 55.262	+2.5802	−123	−23 26 58.24	+10.695	−519
142	[27 Tauri]	3.80	B 8	3 45 6.872	+3.5656	+ 14	+23 50 48.64	+11.083	− 45
143	*g* Eridani	4.24	K 0	3 46 54.546	+2.2451	− 40	−36 24 19.29	+10.945	− 52
146	γ Hydri	3.17	M a	3 48 16.307	−0.9446	+124	−74 26 52.40	+11.006	+109
144	ζ Persei	2.91	B 1	3 49 51.159	+3.7694	+ 11	+31 40 59.29	+10.769	− 11
145	*9 H. Camelop.	5.22	K 0 + A 0	3 51 19.392	+5.1059	− 3	+60 54 41.67	+10.656	− 16
147	ε Persei	2.96	B 1	3 53 17.055	+4.0232	+ 23	+39 48 54.03	+10.497	− 29
148	ξ Persei	4.05	Oe 5	3 54 32.852	+3.8907	+ 10	+35 35 48.92	+10.424	− 8
149	γ Eridani	3.19	K 5	3 54 51.336	+2.7988	+ 42	−13 42 3.35	+10.297	−112
150	*λ Tauri	var.	B 3	3 56 54.593	+3.3228	− 5	+12 17 58.11	+10.242	− 13
151	ν Tauri	3.94	A 0	3 59 32.211	+3.1908	+ 4	+ 5 48 6.44	+10.047	− 10
153	[Erid. 174 G.]	5.57	A 5	4 2 49.214	+2.4723	+148	−27 50 12.59	+ 9.915	+108
152	*c* Persei	4.03	B 3 p	4 3 43.042	+4.3523	+ 33	+47 31 57.53	+ 9.707	− 32
154	o^1 Eridani	4.14	F 2	4 8 32.696	+2.9284	+ 8	− 7 0 49.50	+ 9.450	+ 82
155	α Horologii	3.83	K 0	4 11 44.750	+1.9860	+ 20	−42 27 41.02	+ 8.901	−219
156	α Reticuli	3.36	G 5	4 13 32.605	+0.7688	+ 50	−62 38 37.31	+ 9.026	+ 47
157	[γ Doradus]	4.36	F 5	4 14 14.477	+1.5691	+ 89	−51 39 27.64	+ 9.096	+172
160	υ^4 Eridani	3.59	B 9	4 15 19.144	+2.2688	+ 37	−33 57 48.74	+ 8.828	− 12
159	[γ Tauri]	3.86	K 0	4 15 55.248	+3.4133	+ 82	+15 27 53.04	+ 8.764	− 29

Nr. 145. Doppelstern, Größe der Komponenten: 5.0 und 8.2 Nr. 150. Größe: Max. 3.3, Min. 4.2

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
158	[54 Persei]	5.10	G 5	4 15 59.413	+3.8935	− 20	+34 24 14.93	+8.781	− 6
161	[Erid. 212 G.]	5.31	A 0	4 17 41.068	+2.6187	+ 36	−20 48 1.74	+8.670	+ 15
162	δ Tauri	3.93	K 0	4 19 0.629	+3.4591	+ 78	+17 23 3.88	+8.518	− 31
163	[η Reticuli]	5.18	K 0	4 21 8.941	+0.6458	+127	−63 32 51.62	+8.540	+160
166	[δ Mensae]	5.62	K 0 p	4 22 31.488	−4.0946	+ 99	−80 22 29.22	+8.342	+ 71
164	ε Tauri	3.63	K 0	4 24 38.602	+3.5026	+ 80	+19 1 51.89	+8.066	− 35
165	*[1 Camel. seq.]	5.42	B 1	4 26 38.156	+4.7478	+ 7	+53 45 54.04	+7.942	0
167	[δ Caeli]	5.16	B 3	4 28 45.032	+1.8364	− 6	−45 5 56.84	+7.755	− 17
168	α Tauri	1.06	K 5	4 32 0.976	+3.4418	+ 48	+16 22 26.49	+7.319	−189
171	α Doradus	3.47	A 0 p	4 32 31.610	+1.2968	+ 71	−55 11 5.44	+7.469	+ 3
170	[υ^2 Eridani]	3.88	K 0	4 32 54.328	+2.3315	− 46	−30 42 1.72	+7.430	− 6
169	ν Eridani	4.12	B 2	4 32 55.201	+2.9975	+ 2	− 3 29 24.93	+7.430	− 4
172	53 Eridani	3.98	K 0	4 35 3.889	+2.7469	− 54	−14 26 9.21	+7.095	−164
174	τ Tauri	4.33	B 5	4 38 9.676	+3.6005	+ 5	+22 49 40.67	+6.987	− 19
173	Grb 848	6.04	F 0	4 39 38.921	+8.0506	+105	+75 49 15.03	+6.751	−134
176	[μ Eridani]	4.18	B 5	4 42 6.079	+2.9999	+ 13	− 3 22 40.92	+6.671	− 12
175	4 Camelop.	5.35	A 2	4 42 19.822	+4.9931	+ 60	+56 38 18.72	+6.517	−146
177	[μ Mensae]	5.69	B 9	4 43 44.120	−0.6049	+ 17	−71 3 21.54	+6.576	+ 28
178	9 Camelop.	4.38	B 0	4 47 16.555	+5.9560	+ 5	+66 13 47.25	+6.264	+ 10
179	[π^4 Orionis]	3.78	B 3	4 47 34.965	+3.1950	0	+ 5 29 24.26	+6.221	− 7
180	π^5 Orionis	3.87	B 3	4 50 42.464	+3.1247	− 2	+ 2 19 50.15	+5.965	− 3
181	ι Aurigae	2.90	K 2	4 52 33.744	+3.9064	+ 10	+33 3 36.37	+5.793	− 20
183	*ε Aurigae	var.	F 5 p	4 57 5.115	+4.3038	+ 6	+43 43 27.99	+5.420	− 14
182	10 Camelop.	4.22	G 0 p	4 57 21.650	+5.3328	− 1	+60 20 42.75	+5.399	− 12
184	ι Tauri	4.70	A 5	4 59 1.765	+3.5860	+ 53	+21 29 39.79	+5.227	− 43
185	η Aurigae	3.28	B 3	5 1 44.570	+4.2062	+ 33	+41 8 39.50	+4.969	− 71
186	ε Leporis	3.29	K 5	5 2 34.919	+2.5397	+ 20	−22 27 40.44	+4.902	− 68
187	[η^2 Pictoris]	4.92	K 5	5 3 12.068	+1.5506	+ 35	−49 40 8.77	+4.923	+ 6
189	[ζ Doradus]	4.76	F 8	5 4 20.429	+1.0248	− 70	−57 33 54.93	+4.923	+103
188	β Eridani	2.92	A 3	5 4 30.360	+2.9495	− 59	− 5 10 23.02	+4.727	− 79
190	[λ Eridani]	4.34	B 2	5 5 53.489	+2.8712	+ 3	− 8 50 24.15	+4.684	− 4
192	μ Aurigae	4.78	A 3	5 8 46.329	+4.1046	− 13	+38 24 20.54	+4.365	− 79
194	β Orionis	0.34	B 8 p	5 11 16.131	+2.8830	+ 2	− 8 16 44.15	+4.230	0
191	19 H. Camelop.	5.16	F 8	5 11 18.719	+9.8619	−310	+79 9 26.76	+4.387	+161
193	α Aurigae	0.21	G 0	5 11 39.746	+4.4312	+ 84	+45 55 50.78	+3.768	−428
196	ϑ Doradus	4.78	K 0	5 13 48.282	−0.0496	+ 15	−67 15 42.50	+4.051	+ 39
195	[τ Orionis]	3.68	B 5	5 14 18.216	+2.9129	− 12	− 6 54 59.78	+3.963	− 7
197	[ο Columbae]	4.91	K 0	5 15 1.842	+2.1628	+ 62	−34 57 38.21	+3.579	−329
198	[Columb. 12 G.]	5.75	A 0	5 16 41.068	+2.3923	+ 8	−27 26 15.94	+3.755	− 11
199	[ζ Pictoris]	5.52	F 8	5 17 41.909	+1.4702	+ 9	−50 40 42.20	+3.905	+227

Nr. 165. Doppelstern, Größe der Komponenten: 5.86 und 6.61.

Nr. 183. Größe: Max. 3.4, Min. 4.1

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
200	[η Orion. med.]	3.44	B 1	5 21 3.457	+3.0169	+ 5	− 2 27 30.03	+3.391	+ 1
201	γ Orionis	1.70	B 2	5 21 28.977	+3.2179	− 3	+ 6 17 21.80	+3.332	− 20
202	β Tauri	1.78	B 8	5 21 59.513	+3.7926	+ 25	+28 33 6.08	+3.132	−177
203	17 Camelop.	5.75	K 5	5 23 44.496	+5.6639	− 3	+63 0 46.61	+3.157	− 1
204	[β Leporis]	2.96	G 0	5 25 19.907	+2.5712	+ 4	−20 48 45.40	+2.927	− 93
206	δ Orionis	2.48 6.87	B 0	5 28 31.892	+3.0649	0	− 0 20 53.25	+2.742	− 2
207	α Leporis	2.69	F 0	5 29 43.824	+2.6460	+ 2	−17 52 11.33	+2.642	+ 2
205	Grb 966	6.36	K 5	5 30 37.246	+8.0190	− 8	+75 0 8.41	+2.582	+ 20
208	[φ¹ Orionis]	4.53	B 0	5 31 5.185	+3.2934	− 1	+ 9 26 41.57	+2.512	− 10
209	ι Orionis	2.87	Oe 5	5 32 6.378	+2.9351	+ 4	− 5 57 11.94	+2.429	− 4
210	ε Orionis	1.75	B 0	5 32 45.729	+3.0442	+ 1	− 1 14 38.52	+2.374	− 3
212	β Doradus	3.81	F 5 p	5 33 1.946	+0.5187	− 13	−62 32 2.85	+2.351	− 2
211	ζ Tauri	3.00	B 3 p	5 33 34.791	+3.5858	+ 6	+21 6 9.41	+2.280	− 26
214	[γ Mensae]	5.06	K 0	5 34 33.928	−2.3842	+284	−76 23 25.35	+2.518	+298
213	[σ Orionis]	3.78	B 0	5 35 19.895	+3.0117	0	− 2 38 16.81	+2.152	− 1
215	α Columbae	2.75	B 5 p	5 37 11.129	+2.1722	− 2	−34 6 34.38	+1.955	− 37
216	ο Aurigae	5.52	A 0	5 40 37.860	+4.6479	− 6	+49 47 54.71	+1.683	− 9
217	[γ Leporis]	3.80	F 8	5 41 37.729	+2.5019	−201	−22 28 10.31	+1.230	−375
218	[130 Tauri]	5.51	F 0	5 43 28.289	+3.4988	+ 4	+17 42 18.78	+1.438	− 6
219	ζ Leporis	3.67	A 2	5 43 52.421	+2.7184	− 12	−14 50 45.91	+1.408	− 2
220	κ Orionis	2.20	B 0	5 44 31.861	+2.8456	+ 4	− 9 41 33.09	+1.349	− 3
221	[ν Aurigae]	4.18	K 0	5 46 46.546	+4.1578	− 4	+39 7 49.74	+1.167	+ 11
222	[δ Leporis]	3.90	K 0	5 48 23.799	+2.5802	+165	−20 53 1.65	+0.362	−653
223	[β Columbae]	3.22	K 0	5 48 33.666	+2.1140	+ 34	−35 47 34.43	+1.404	+404
224	α Orionis	0.92	M a	5 51 29.394	+3.2483	+ 20	+ 7 23 45.28	+0.757	+ 13
226	[η Leporis]	3.77	F 0	5 53 18.448	+2.7328	− 27	−14 10 44.01	+0.725	+140
225	δ Aurigae	3.88	K 0	5 53 55.670	+4.9407	+100	+54 16 54.27	+0.409	−122
227	β Aurigae	2.07	A 0 p	5 54 32.458	+4.4019	− 42	+44 56 32.75	+0.470	− 8
228	ϑ Aurigae	2.71	A 0 p	5 55 5.066	+4.0922	+ 49	+37 12 34.46	+0.343	− 87
229	η Columbae	4.03	K 0	5 57 3.915	+1.8370	+ 22	−42 49 6.07	+0.223	− 34
230	[66 Orionis]	5.70	K 0	6 1 22.750	+3.1696	− 6	+ 4 9 49.60	−0.136	− 15
231	[Puppis 1 G.]	6.22	F 8	6 2 30.967	+1.7268	− 83	−45 2 8.30	+0.012	+232
232	ν Orionis	4.40	B 2	6 3 41.384	+3.4265	+ 11	+14 46 40.70	−0.354	− 31
233	[36 Camelop.]	5.39	K 0	6 6 0.583	+6.0357	− 5	+65 44 4.71	−0.555	− 29
235	[δ Pictoris]	4.84	B 1	6 8 58.357	+1.1671	− 22	−54 57 11.05	−0.792	− 7
236	*η Geminor.	var.	M a	6 10 46.402	+3.6224	− 42	+22 31 41.35	−0.955	− 13
234	22 H. Camelop.	4.73	A 0	6 11 21.427	+6.6153	+ 15	+69 20 48.51	−1.095	−102
239	[α Mensae]	5.14	K 0	6 12 15.739	−1.7916	+234	−74 43 50.31	−1.298	−226
237	[2 Lyncis]	4.42	A 0	6 13 37.521	+5.2956	− 7	+59 2 16.73	−1.162	+ 29
238	[κ Columbae]	4.51	K 0	6 14 7.945	+2.1344	− 6	−35 7 1.38	−1.161	+ 74

Nr. 236. Größe: Max. 3.3, Min. 4.2

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
240	ζ Canis maj.	3.10	B 3	6 17 42.117	+ 2.3029	+ 2	−30 1 55.50	−1.543	+ 4
241	μ Geminor.	3.19	M a	6 18 50.847	+ 3.6307	+ 48	+22 33 0.53	−1.757	− 111
242	ψ¹ Aurigae	5.10	K 2	6 19 39.799	+ 4.6230	+ 9	+49 19 28.89	−1.721	− 3
243	β Canis maj.	1.99	B 1	6 19 42.281	+ 2.6420	− 4	−17 55 15.40	−1.719	+ 2
244	8 Monocer.	4.48 6.54	A 5	6 20 9.910	+ 3.1800	− 7	+ 4 37 43.47	−1.757	+ 4
245	α Argus	−0.86	F 0	6 22 26.465	+ 1.3315	+ 16	−52 39 28.72	−1.948	+ 11
246	10 Monocer.	4.98	B 3	6 24 36.105	+ 2.9630	− 2	− 4 43 7.58	−2.142	+ 5
247	8 Lyncis	6.05	G 0	6 31 28.834	+ 5.4868	−285	+61 32 36.07	−3.021	− 277
249	ξ² Canis maj.	4.54	A 0	6 32 12.356	+ 2.5143	+ 5	−22 54 35.38	−2.794	+ 13
251	γ Geminor.	1.93	A 0	6 33 47.065	+ 3.4669	+ 34	+16 27 31.79	−2.990	− 46
250	51 Aurigae	5.71	K 0	6 33 56.923	+ 4.1587	− 18	+39 27 9.27	−3.073	− 114
248	23 H.Camelop.	5.60	F 8	6 34 39.767	+10.2711	−296	+79 38 33.04	−3.642	− 622
252	ν Argus	3.18	B 8	6 35 40.806	+ 1.8357	− 4	−43 8 8.42	−3.128	− 20
253	*S Monocer.	4.68	Oe 5	6 37 14.041	+ 3.3051	+ 6	+ 9 57 36.34	−3.248	− 5
254	ε Geminor.	3.18	G 5	6 39 45.005	+ 3.6927	+ 3	+25 12 0.32	−3.474	− 15
256	ξ Geminor.	3.40	F 5	6 41 28.425	+ 3.3682	− 75	+12 58 13.17	−3.807	− 199
255	[ψ⁵ Aurigae]	5.34	G 0	6 41 50.463	+ 4.3270	+ 7	+43 38 48.79	−3.485	+ 154
257	*α Canis maj.	−1.58	A 0	6 42 9.192	+ 2.6437	−371	−16 37 18.12	−4.877	−1212
258	18 Monocer.	4.70	K 0	6 44 18.975	+ 3.1297	− 2	+ 2 29 16.25	−3.872	− 20
264	[ζ Mensae]	5.64	A 2	6 45 44.228	− 4.9672	− 34	−80 44 37.08	−3.889	+ 85
259	[43 Camelop.]	5.13	B 5	6 46 23.030	+ 6.4794	+ 16	+68 58 12.41	−4.026	+ 3
262	α Pictoris	3.30	A 5	6 47 29.703	+ 0.6172	−100	−61 52 5.14	−3.868	+ 256
263	[τ Argus]	2.83	K 0	6 48 14.910	+ 1.4887	+ 29	−50 31 59.63	−4.284	− 96
261	ϑ Geminor.	3.64	A 2	6 48 18.578	+ 3.9565	+ 7	+34 2 41.65	−4.249	− 55
260	[24 H. Camel.]	4.75	K 5	6 50 10.633	+ 8.7751	+216	+77 4 4.11	−4.367	− 14
266	ϑ Canis maj.	4.25	K 2	6 51 1.840	+ 2.7877	− 94	−11 57 8.03	−4.440	− 13
265	15 Lyncis	4.54	G 0	6 51 23.679	+ 5.2001	− 1	+58 30 51.05	−4.587	− 130
267	[ι Volantis]	5.52	B 8	6 52 14.017	− 0.6822	− 4	−70 52 44.53	−4.517	+ 12
268	ε Canis maj.	1.63	B 1	6 55 57.155	+ 2.3577	0	−28 52 42.62	−4.844	+ 1
269	*ζ Geminor.	var.	G 0 p	7 0 4.652	+ 3.5599	0	+20 40 17.79	−5.197	− 3
270	[ο² Canis maj.]	3.12	B 5 p	7 0 11.093	+ 2.5054	− 2	−23 43 58.36	−5.203	0
271	γ Canis maj.	4.07	B 5	7 0 40.958	+ 2.7153	+ 8	−15 31 54.02	−5.258	− 12
272	[Carinae 27 G.]	5.30	A 0	7 3 2.186	+ 1.1167	− 24	−56 38 45.65	−5.451	− 7
273	δ Canis maj.	1.98	F 8 p	7 5 37.540	+ 2.4391	− 8	−26 17 3.08	−5.658	+ 3
274	63 Aurigae	5.07	K 2	7 6 58.913	+ 4.1297	+ 45	+39 25 59.72	−5.775	0
275	[J Puppis]	4.47	F 0	7 10 37.228	+ 1.7096	−147	−46 38 42.33	−5.989	+ 91
276	[64 Aurigae]	5.75	A 3	7 13 18.794	+ 4.1755	− 3	+41 0 20.77	−6.300	+ 3
277	λ Geminor.	3.65	A 2	7 14 11.198	+ 3.4491	− 31	+16 39 52.03	−6.419	− 44
278	π Argus	2.74	K 5	7 14 44.417	+ 2.1186	− 14	−36 58 28.18	−6.419	+ 3
279	δ Geminor.	3.51	F 0	7 16 3.856	+ 3.5851	− 11	+22 6 32.90	−6.542	− 10

Nr. 253. Doppelstern, Größe der Komponenten: 6.0 und 8.8 Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Auwers A. N. 3085

1932.0 $\Delta\alpha = -0^s.140$ $\Delta\delta = -2''.26$
1933.0 $= -0.126$ $= -2.24$

Nr. 269. Größe: Max. 3.7, Min. 4.3

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
281	δ Volantis	4.02	F 5	7 16 52.305	−0.0237	+ 4	−67 49 58.46	− 6.610	− 12
280	19 Lyncis seq.	5.61	B 8	7 17 19.607	+4.9014	− 1	+55 24 41.63	− 6.670	− 34
283	[η Can. maj.]	2.43	B 5 p	7 21 24.306	+2.3731	− 5	−29 10 9.45	− 6.958	+ 13
282	ι Geminor.	3.89	K 0	7 21 30.387	+3.7288	− 83	+27 56 5.43	− 7.064	− 85
285	β Canis min.	3.09	B 8	7 23 27.869	+3.2548	− 31	+ 8 25 39.79	− 7.180	− 40
284	Grb 1308	5.80	K 0	7 23 49.330	+6.2576	− 7	+68 36 25.65	− 7.213	− 44
286	ρ Geminor.	4.18	F 0	7 24 44.452	+3.8613	+122	+31 55 17.25	− 7.061	+ 183
287	*α Geminor.	2.85 1.99	A 0	7 30 15.783	+3.8323	−129	+32 2 23.03	− 7.773	− 81
288	[Pupp. 108 G.]	4.52	F 8	7 31 8.495	+2.5675	− 39	−22 8 54.50	− 7.745	+ 18
289	25 Monocer.	5.17	F 5	7 33 53.874	+2.9834	− 47	− 3 57 28.41	− 7.965	+ 20
290	[f Puppis]	4.62	B 8	7 34 51.088	+2.2195	− 27	−34 48 52.57	− 8.045	+ 16
291	*α Canis min.	0.48	F 5	7 35 44.608	+3.1414	−470	+ 5 24 2.18	− 9.160	−1027
292	24 Lyncis	4.96	A 2	7 37 15.870	+5.0846	− 47	+58 52 17.51	− 8.307	− 53
293	[26 Monocer.]	4.07	K 0	7 37 59.887	+2.8661	− 57	− 9 23 28.80	− 8.333	− 21
294	κ Geminor.	3.68	G 5	7 40 20.738	+3.6245	− 15	+24 33 45.21	− 8.553	− 54
295	β Geminor.	1.21	K 0	7 41 9.491	+3.6738	−468	+28 11 30.96	− 8.615	− 52
297	ζ Volantis	3.89	K 0	7 42 39.900	−0.7331	+ 8	−72 26 35.16	− 8.674	+ 8
296	π Geminor.	5.29	K 2	7 43 7.598	+3.8718	− 1	+33 35 2.94	− 8.749	− 31
298	[Pupp. 205 G.]	5.34	G 0	7 48 37.401	+2.7786	− 41	−13 42 59.38	− 9.491	− 343
299	[26 Lyncis]	5.69	K 0	7 49 46.086	+4.3741	− 40	+47 44 33.23	− 9.244	− 6
301	[α Puppis]	3.76	G 5	7 49 52.726	+2.0621	− 18	−40 23 58.42	− 9.245	+ 1
300	Grb 1374	5.56	K 0	7 52 5.582	+7.2116	− 31	+74 6 8.88	− 9.450	− 32
303	χ Argus	3.60	B 3	7 55 3.056	+1.5265	− 32	−52 47 57.05	− 9.621	+ 24
302	[53 Camelop.]	6.00	A 2 p	7 55 54.900	+5.1371	− 30	+60 30 44.33	− 9.732	− 21
304	[27 Monocer.]	5.06	K 0	7 56 20.431	+2.9990	− 27	− 3 29 34.28	− 9.734	+ 9
305	χ Geminor.	5.04	K 0	7 59 20.743	+3.6874	− 15	+27 59 11.09	−10.018	− 46
306	ζ Argus	2.27	O d	8 1 11.582	+2.1079	− 34	−39 48 38.76	−10.102	+ 10
307	27 Lyncis	4.87	A 2	8 3 21.115	+4.5200	− 59	+51 42 15.97	−10.279	− 4
308	ι Navis	2.88	F 5	8 4 38.854	+2.5549	− 64	−24 6 26.26	−10.325	+ 47
309	γ Argus	2.22	O a p	8 7 26.178	+1.8488	− 12	−47 8 7.91	−10.584	− 4
311	20 Navis	5.05	G 5	8 10 12.461	+2.7580	− 8	−15 34 56.33	−10.791	− 6
310	Br 1147	5.73	G 5	8 11 2.885	+7.5748	+ 58	+75 58 2.49	−10.830	+ 17
312	β Cancri	3.76	K 2	8 12 49.769	+3.2550	− 30	+ 9 23 46.79	−11.029	− 52
313	[η Puppis]	4.43	A 5	8 16 0.485	+2.2444	−104	−36 26 51.95	−11.120	+ 89
314	31 Lyncis	4.43	K 5	8 18 11.275	+4.1132	− 8	+43 24 27.66	−11.474	− 108
315	ε Argus	1.74	K 0 + B	8 21 7.259	+1.2333	− 32	−59 17 24.38	−11.562	+ 15
316	Br 1197	3.95	A 0	8 22 15.834	+2.9989	− 41	− 3 41 0.37	−11.679	− 21
318	ϑ Chamael.	4.26	K 0	8 22 42.631	−1.7761	−458	−77 15 56.83	−11.660	+ 31
317	ο Ursae maj.	3.47	G 0	8 24 37.897	+4.9977	−174	+60 56 50.29	−11.937	− 110
319	[β Volantis]	3.65	K 0	8 25 0.176	+0.6573	− 55	−65 54 35.49	−12.030	− 177

Nr. 287. Rektaszension der Mitte, Deklination des folgenden, helleren Sterns. Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Auwers A. N. 3929

1932.0 $\Delta\alpha = +0^s.065$ $\Delta\delta = +0''.05$
1933.0 $= +0\ .067$ $= -0\ .06$

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
320	Grb 1450	6.05	K 0	8 28 30.131	+3.9046	− 83	+38 15 3.70	−12.268	−170
321	η Cancri	5.52	K 0	8 28 46.801	+3.4720	− 26	+20 40 24.19	−12.167	− 50
322	[Grb 1446]	6.29	K 0	8 32 11.518	+6.7078	− 37	+73 52 11.02	−12.458	−104
323	[Grb 1460]	6.03	K 0	8 34 15.963	+4.4532	− 38	+52 57 5.04	−12.531	− 35
324	[e Velorum]	4.13	A 5	8 35 15.082	+2.1082	− 22	−42 45 2.05	−12.570	− 7
325	[6 Hydrae]	5.15	K 2	8 36 48.148	+2.8420	− 64	−12 14 2.33	−12.671	− 3
326	δ Cancri	4.17	K 0	8 40 49.439	+3.4116	− 9	+18 24 19.28	−13.175	−236
327	α Pyxidis	3.70	B 2	8 40 51.537	+2.4103	− 15	−32 56 25.30	−12.930	+ 12
328	ι Cancri	6.61 4.20	A 5 G 5	8 42 35.234	+3.6340	− 12	+29 0 35.50	−13.104	− 47
330	δ Argus	2.01	A 0	8 42 49.574	+1.6571	+ 22	−54 27 32.02	−13.166	− 93
329	[ε Hydrae]	3.48	F 8	8 43 10.621	+3.1787	− 126	+ 6 40 9.90	−13.146	− 50
331	[η Chamael.]	5.62	B 9	8 43 40.611	−2.0031	− 151	−78 43 1.36	−13.095	+ 34
332	[γ Pyxidis]	4.19	K 2	8 47 38.735	+2.5463	− 99	−27 27 24.00	−13.296	+ 94
333	[σ²Cancri med.]	5.60	K 0	8 50 6.054	+3.6640	+ 31	+30 50 17.09	−13.574	− 26
334	ζ Hydrae	3.30	K 0	8 51 48.072	+3.1728	− 64	+ 6 12 19.44	−13.645	+ 12
336	c Carinae	3.98	B 8	8 53 30.508	+1.3617	− 26	−60 23 2.76	−13.714	+ 52
335	ι Ursae maj.	3.12	A 5	8 54 33.725	+4.1150	− 437	+48 18 35.42	−14.080	−247
337	α Cancri	4.27	A 3	8 54 46.250	+3.2831	+ 26	+12 7 19.26	−13.882	− 35
339	10 Ursae maj.	4.09	F 5	8 56 14.057	+3.9009	− 383	+42 3 11.26	−14.202	−264
338	[ρ Ursae maj.]	4.99	M a	8 56 26.490	+5.4319	− 34	+67 53 46.80	−13.937	+ 15
341	κ Ursae maj.	3.68	A 0	8 58 59.572	+4.1032	− 27	+47 25 36.08	−14.176	− 65
340	[Grb 1501]	5.68	A 2	8 59 2.236	+4.4050	− 8	+54 33 11.89	−14.111	+ 3
343	α Volantis	4.18	A 5	9 1 22.659	+0.9503	− 8	−66 7 28.16	−14.372	−114
342	[c Velorum]	3.69	K 0	9 1 48.389	+2.0668	− 70	−46 49 35.36	−14.312	− 28
344	σ² Ursae maj.	4.87	F 8	9 4 26.183	+5.2982	− 16	+67 24 44.49	−14.513	− 67
345	λ Argus	2.22	K 5	9 5 29.551	+2.2051	− 33	−43 9 26.33	−14.500	+ 9
346	[36 Lyncis]	5.30	B 8	9 9 21.906	+3.9304	− 18	+43 29 57.13	−14.783	− 42
347	ϑ Hydrae	3.84	A 0	9 10 49.690	+3.1227	+ 89	+ 2 36 7.52	−15.140	−313
348	β Argus	1.80	A 0	9 12 27.691	+0.6644	− 304	−69 26 12.92	−14.825	+ 97
349	[38 Lyncis]	3.82	A 2	9 14 37.199	+3.7385	− 18	+37 5 29.21	−15.177	−129
350	*83 Cancri	6.60	F 5	9 15 11.377	+3.3508	− 80	+17 59 40.52	−15.216	−135
351	[ι Argus]	2.25	F 0	9 15 16.156	+1.6057	− 35	−58 59 21.94	−15.084	+ 2
352	40 Lyncis	3.30	K 5	9 16 55.114	+3.6589	− 178	+34 40 52.12	−15.168	+ 12
353	κ Argus	2.63	B 3	9 20 0.374	+1.8568	− 22	−54 43 10.96	−15.353	+ 2
354	α Hydrae	2.16	K 2	9 24 14.792	+2.9488	− 7	− 8 21 46.76	−15.559	+ 32
355	h Ursae maj.	3.75	F 0	9 26 11.404	+4.7463	+ 168	+63 21 37.89	−15.669	+ 28
356	[ε Antliae]	4.64	K 2	9 26 26.217	+2.4752	− 25	−35 39 12.04	−15.724	− 14
359	ψ Argus	3.64	F 5	9 28 1.176	+2.3614	− 172	−40 10 5.70	−15.722	+ 74
358	ϑ Ursae maj.	3.26	F 8 p	9 28 19.280	+4.0209	−1027	+51 59 17.86	−16.357	−545
357	d Ursae maj.	4.57	G 0	9 28 30.255	+5.3310	− 120	+70 7 50.55	−15.747	+ 75

Nr. 350. Größe aus Harvard 54 entnommen.

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
361	[N Velorum]	3.04	K 5	9 29 9.343	+1.8233	— 36	—56 44 1.57	—15.856	+ 1
360	10 Leon. min.	4.62	G 5	9 30 3.884	+3.6803	+ 13	+36 42 1.77	—15.931	— 26
362	[H. Carinae]	5.52	K 2	9 31 6.434	+0.4588	— 61	—72 46 45.34	—15.978	— 17
363	[Grb 1564]	5.74	K 0	9 36 27.531	+5.1601	—131	+69 32 54.00	—16.313	— 74
364	[κ Hydrae]	4.96	B 3	9 37 2.775	+2.8762	— 18	—14 1 22.32	—16.280	— 11
365	[ο Leonis]	3.76	F 5 + A 3	9 37 31.434	+3.2036	— 94	+10 12 9.21	—16.331	— 37
366	ϑ Antliae	4.98	F 5 p	9 41 10.151	+2.6736	— 40	—27 27 26.71	—16.442	+ 35
367	ε Leonis	3.12	G 0 p	9 41 59.745	+3.4083	— 31	+24 5 17.49	—16.536	— 17
369	υ Argus	3.15 6.03	F 0	9 45 24.183	+1.5004	— 21	—64 45 22.21	—16.687	— 1
368	υ Ursae maj.	3.89	F 0	9 46 10.308	+4.2787	—379	+59 21 34.80	—16.876	—154
370	6 Sextantis	6.00	A 2	9 47 48.482	+3.0237	+ 8	— 3 55 26.16	—16.831	— 30
371	[μ Leonis]	4.10	K 0	9 48 54.042	+3.4147	—162	+26 19 41.13	—16.910	— 56
733	[Hydrae 183 G.]	5.16	M a	9 51 39.778	+2.8304	— 25	—18 41 12.68	—17.049	— 66
372	Grb 1586	5.96	K 0	9 52 20.788	+5.3953	—179	+73 12 14.56	—17.060	— 45
374	[19 Leon. min.]	5.19	F 5	9 53 31.677	+3.6801	—100	+41 22 49.15	—17.096	— 27
375	[φ Argus]	3.70	B 5	9 54 28.362	+2.1045	— 21	—54 14 36.96	—17.114	— 2
377	[η Antliae]	5.25	F 0	9 55 57.065	+2.5724	— 83	—35 33 53.64	—17.203	— 24
376	[12 Sextantis]	6.63	A 5	9 56 11.528	+3.1128	— 47	+ 3 42 38.43	—17.163	+ 27
378	π Leonis	4.89	M a	9 56 37.324	+3.1716	— 21	+ 8 22 16.37	—17.234	— 25
379	η Leonis	3.58	A 0 p	10 3 37.698	+3.2725	— 2	+17 5 41.81	—17.521	— 6
380	α Leonis	1.34	B 8	10 4 45.185	+3.1967	—167	+12 18 0.67	—17.563	— 1
381	λ Hydrae	3.83	K 0	10 7 16.387	+2.9252	—134	—12 1 2.22	—17.755	— 87
382	q Velorum	4.09	A 2	10 11 52.618	+2.5148	—154	—41 47 4.03	—17.810	+ 45
385	[ω Argus]	3.56	B 8	10 12 7.586	+1.4319	— 29	—69 41 59.72	—17.865	0
384	ζ Leonis	3.65	F 0	10 12 54.747	+3.3394	+ 15	+23 45 24.84	—17.903	— 7
383	λ Ursae maj.	3.52	A 2	10 13 0.258	+3.6240	—148	+43 15 16.51	—17.948	— 49
386	μ Ursae maj.	3.21	K 5	10 18 17.173	+3.5797	— 70	+41 50 31.55	—18.078	+ 24
387	30 H. Urs. maj.	4.92	A 0	10 19 15.057	+4.3424	— 25	+65 54 40.16	—18.157	— 18
388	[25 Sextantis]	6.10	B 9	10 20 0.266	+3.0321	— 40	— 3 43 47.55	—18.169	— 2
389	μ Hydrae	4.06	K 5	10 22 48.071	+2.9017	— 85	—16 29 19.08	—18.350	— 82
391	J Carinae	4.08	F 5	10 23 2.900	+1.1920	— 67	—73 41 6.27	—18.294	— 17
390	31 Leon. min.	4.41	K 0	10 23 57.495	+3.4739	— 96	+37 3 22.69	—18.416	—106
392	Lac. α Antliae	4.42	K 5	10 24 2.266	+2.7438	— 62	—30 43 15.74	—18.303	+ 10
393	s Carinae	4.08	F 0	10 25 22.676	+2.1985	— 32	—58 23 30.67	—18.374	— 14
394	36 Ursae maj.	4.84	F 5	10 26 17.330	+3.8489	—216	+56 19 47.81	—18.425	— 33
396	[ρ Leonis]	3.85	B 0 p	10 29 13.952	+3.1601	— 6	+ 9 39 25.46	—18.498	— 5
395	9 H. Dracon.	5.04	G 5	10 29 22.014	+5.1380	— 96	+76 3 50.98	—18.502	— 4
397	[p Carinae]	3.58	B 5 p	10 29 36.212	+2.1318	— 18	—61 20 6.37	—18.500	+ 5
399	[44 Hydrae]	5.32	K 2	10 30 46.751	+2.8533	— 2	—23 23 39.33	—18.524	+ 21
398	[37 Ursae maj.]	5.16	F 0	10 30 47.783	+3.8751	+ 83	+57 26 0.66	—18.509	+ 36

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
400	*[p Velorum]	4.06	F 2 + A 3	10 34 26.229	+2.5157	−183	−47 52 19.81	−18.697	− 34
401	[γ Chamael.]	4.10	M a	10 34 40.875	+0.7236	−116	−78 15 17.01	−18.641	+ 30
402	[x Velorum]	4.37	G o	10 36 35.476	+2.3798	− 75	−55 14 56.24	−18.752	− 21
404	33 Sextantis	6.40	K o	10 37 56.661	+3.0522	− 94	− 1 23 1.15	−18.898	−125
403	[35 H.Urs. maj.]	5.23	K o	10 38 13.542	+4.3149	− 19	+69 25 56.93	−18.800	− 18
405	[41 Leon. min.]	5.05	A 2	10 39 43.372	+3.2647	− 80	+23 32 42.00	−18.814	+ 13
406	ϑ Argus	3.03	B o	10 40 31.603	+2.1376	− 26	−64 2 16.11	−18.847	+ 4
407	42 Leon. min.	5.37	B 9	10 42 5.360	+3.3396	− 15	+31 2 27.59	−18.934	− 37
408	μ Argus	2.84	G 5	10 43 50.305	+2.5753	+ 49	−49 3 38.25	−19.012	− 65
411	[δ² Chamael.]	4.62	B 3	10 45 10.190	+0.5845	−120	−80 10 52.81	−18.976	+ 9
409	l Leonis	5.27	A o	10 45 41.095	+3.1547	− 3	+10 54 19.53	−19.030	− 30
410	[ν Hydrae]	3.32	K o	10 46 16.111	+2.9597	+ 66	−15 50 14.79	−18.821	+194
412	[46 Leon. min.]	3.92	K o	10 49 30.902	+3.3594	+ 76	+34 34 54.92	−19.386	−282
414	[ι Antliae]	4.70	K o	10 53 32.707	+2.7936	+ 62	−36 46 18.92	−19.344	−137
413	[Br 1508]	6.26	G 5	10 54 34.147	+4.8385	−258	+78 8 6.16	−19.259	− 26
415	i Velorum	4.56	A 2	10 57 1.813	+2.7500	+ 20	−41 51 39.14	−19.296	− 4
416	β Ursae maj.	2.44	A o	10 57 45.081	+3.6298	+101	+56 44 50.16	−19.283	+ 26
417	α Ursae maj.	1.95	K o	10 59 32.865	+3.7140	−174	+62 7 6.40	−19.422	− 72
418	χ Leonis	4.66	F o	11 1 30.648	+3.0955	−231	+ 7 42 14.46	−19.440	− 46
419	[χ Hydrae]	5.06	F 5	11 2 3.113	+2.8878	−154	−26 55 34.57	−19.413	− 7
420	ψ Ursae maj.	3.15	K o	11 5 50.921	+3.3786	− 57	+44 52 3.84	−19.523	− 36
421	β Crateris	4.52	A 2	11 8 18.664	+2.9494	o	−22 27 15.19	−19.634	− 98
422	δ Leonis	2.58	A 3	11 10 29.710	+3.1929	+106	+20 53 47.51	−19.715	−136
423	ϑ Leonis	3.41	A o	11 10 40.436	+3.1494	− 43	+15 48 5.53	−19.663	− 81
424	[Grb 1757]	5.97	K o	11 12 52.443	+3.3866	− 97	+49 50 51.19	−19.644	− 22
425	ν Ursae maj.	3.71	K o	11 14 48.683	+3.2444	− 16	+33 27 56.03	−19.634	+ 22
426	δ Crateris	3.82	K o	11 15 56.347	+2.9985	− 88	−14 24 37.22	−19.474	+200
427	σ Leonis	4.13	A o	11 17 37.866	+3.0942	− 62	+ 6 24 8.20	−19.715	− 12
428	π Centauri	4.26	B 5	11 17 53.935	+2.7314	− 41	−54 7 5.38	−19.720	− 13
429	Grb 1771	5.98	A o	11 18 49.893	+3.5770	− 10	+64 42 10.56	−19.687	+ 34
430	[ι Leonis]	4.03	F 5	11 20 22.835	+3.1278	+106	+10 54 14.12	−19.829	− 84
431	[γ Crateris]	4.14	A 5	11 21 28.953	+2.9961	− 72	−17 18 36.77	−19.755	+ 7
432	[58 Ursae maj.]	5.88	F 8	11 26 50.786	+3.2517	− 43	+43 32 47.80	−19.763	+ 72
433	λ Draconis	4.06	M a	11 27 23.355	+3.5774	− 79	+69 42 23.58	−19.863	− 21
434	ξ Hydrae	3.72	G 5	11 29 39.178	+2.9482	−167	−31 28 52.35	−19.911	− 43
435	[C² Centauri]	5.42	F o	11 32 37.344	+2.9019	+ 13	−47 15 51.61	−19.948	− 47
436	λ Centauri	3.34	B 9	11 32 38.078	+2.7595	− 58	−62 38 36.48	−19.918	− 17
437	υ Leonis	4.47	K o	11 33 28.016	+3.0718	+ 1	− 0 26 53.66	−19.874	+ 36
438	[π Chamael.]	5.74	F o	11 34 26.808	+2.4692	−280	−75 31 11.83	−19.925	− 5
439	[o Hydrae]	4.88	B 8	11 36 49.892	+2.9777	− 30	−34 22 3.49	−19.941	+ 1

Nr. 400. Doppelstern, Größe der Komponenten: 4.5 und 5.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
440	3 Draconis	5.48	K 0	11 38 41.828	+3.3591	− 78	+67 7 17.16	−19.918	+ 40
442	[λ Muscae]	3.80	A 5	11 42 23.167	+2.8233	−153	−66 21 6.37	−19.965	+ 20
441	χ Ursae maj.	3.85	K 0	11 42 28.053	+3.1736	−133	+48 9 23.24	−19.966	+ 20
443	[Centauri 65 G.]	4.22	G 0	11 43 12.893	+2.8955	− 25	−60 48 1.39	−20.025	− 35
444	β Leonis	2.23	A 2	11 45 35.570	+3.0613	−341	+14 57 8.09	−20.122	−118
445	β Virginis	3.80	F 8	11 47 9.188	+3.1252	+494	+ 2 8 52.57	−20.289	−276
446	[*B* Centauri]	4.71	K 0	11 47 44.146	+2.9909	−111	−44 47 43.40	−20.062	− 46
447	γ Ursae maj.	2.54	A 0	11 50 15.779	+3.1620	+107	+54 4 22.00	−20.024	+ 2
448	[ε Chamael.]	5.05	B 9	11 56 13.240	+2.9544	−162	−77 50 35.40	−20.050	− 9
449	[Centauri 88 G.]	5.28	F 0	12 0 7.735	+3.1003	+267	−42 3 12.06	−20.167	−122
450	o Virginis	4.24	G 5	12 1 44.758	+3.0566	−147	+ 9 6 37.89	−20.006	+ 38
451	[Grb 1852]	5.96	K 0	12 1 49.223	+3.0694	+436	+77 17 9.39	−20.140	− 96
452	δ Centauri	2.88	B 3 p	12 4 49.510	+3.1025	− 44	−50 20 37.45	−20.058	− 18
453	ε Corvi	3.21	K 0	12 6 37.432	+3.0836	− 51	−22 14 29.81	−20.025	+ 11
454	4 H. Draconis	5.12	A 5	12 9 2.152	+2.8275	+ 23	+77 59 38.60	−20.006	+ 23
455	[δ Crucis]	3.08	B 3	12 11 31.360	+3.1769	− 51	−58 22 15.20	−20.046	− 27
456	δ Ursae maj.	3.44	A 2	12 12 4.204	+2.9764	+135	+57 24 36.99	−20.014	+ 3
457	[γ Corvi]	2.78	B 8	12 12 18.362	+3.0839	−112	−17 9 52.19	−19.999	+ 17
458	[2 Can. ven.]	5.80	K 5	12 12 43.457	+3.0110	+ 26	+41 2 18.48	−20.058	− 45
459	β Chamael.	4.38	B 5	12 14 19.070	+3.4852	−143	−78 56 5.04	−19.993	+ 12
460	η Virginis	4.00	A 0	12 16 25.572	+3.0692	− 42	− 0 17 20.58	−20.016	− 23
461	[6 Can. ven.]	5.22	K 0	12 22 30.204	+2.9586	− 67	+39 23 44.57	−19.984	− 36
462	α Crucis med.	1.58 2.09	B 1	12 22 48.372	+3.3260	− 44	−62 43 22.23	−19.976	− 31
463	[Hydr. 323 G.]	5.68	A 0	12 23 16.308	+3.1577	− 14	−32 27 12.58	−19.990	− 49
464	[σ Centauri]	4.16	B 3	12 24 21.181	+3.2374	− 36	−49 51 15.49	−19.964	− 33
466	20 Comae	5.72	A 2	12 26 18.421	+3.0159	+ 26	+21 16 20.68	−19.951	− 39
465	δ Corvi	3.11	A 0	12 26 20.574	+3.1028	−145	−16 8 13.38	−20.054	−142
467	[74 Ursae maj.]	5.44	A 5	12 26 47.184	+2.8062	− 96	+58 46 46.83	−19.820	+ 88
468	[γ Crucis]	1.61	Mb	12 27 22.877	+3.3183	+ 26	−56 43 57.83	−20.179	−278
469	[γ Muscae]	4.04	B 5	12 28 22.977	+3.5655	− 82	−71 45 27.73	−19.912	− 22
470	8 Can. ven.	4.32	G 0	12 30 31.090	+2.8523	−624	+41 43 35.91	−19.587	+280
472	κ Draconis	3.88	B 5 p	12 30 35.458	+2.5683	−117	+70 9 46.19	−19.858	+ 7
471	β Corvi	2.84	G 5	12 30 48.626	+3.1486	− 4	−23 1 15.38	−19.922	− 59
473	24 Comae seq.	5.18	K 0	12 31 43.232	+3.0105	+ 2	+18 45 4.18	−19.834	+ 18
474	α Muscae	2.94	B 3	12 33 6.545	+3.5623	− 56	−68 45 40.57	−19.867	− 32
475	[χ Virginis]	4.78	K 0	12 35 44.089	+3.0958	− 49	− 7 37 18.16	−19.838	− 37
476	γ Centauri	2.38	A 0	12 37 45.353	+3.3009	−205	−48 35 11.88	−19.792	− 20
477	[γ Virgin. med.]	3.65 3.68	F 0 F 0	12 38 12.806	+3.0396	−375	− 1 4 36.40	−19.761	+ 5
478	76 Ursae maj.	5.92	A 0	12 38 36.146	+2.6272	− 45	+63 5 10.18	−19.777	− 17
479	[Hydr. 330 G.]	5.73	K 2	12 40 22.754	+3.1946	− 26	−27 57 4.21	−19.784	− 50

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
480	[β Muscae]	3.26	B 3	12 42 5.412	+3.6637	− 53	−67 44 10.51	−19.738	− 31
481	β Crucis	1.50	B 1	12 43 43.992	+3.4941	− 59	−59 19 2.55	−19.707	− 27
482	*n* Centauri	4.34	A 5	12 49 39.713	+3.3169	+ 45	−39 48 34.45	−19.613	− 37
483	ε Ursae maj.	1.68	A 0 p	12 51 2.614	+2.6435	+136	+56 19 42.92	−19.560	− 11
484	δ Virginis	3.66	M a	12 52 10.634	+3.0216	−315	+ 3 45 59.52	−19.590	− 63
486	8 Draconis	5.27	F 0	12 52 46.477	+2.3925	− 15	+65 48 25.41	−19.549	− 34
485	12 Can. ven. sq.	2.90	A 0 p	12 52 51.013	+2.8085	−199	+38 41 6.86	−19.463	+ 50
487	[δ Muscae]	3.63	K 2	12 57 33.716	+4.1005	+530	−71 10 57.39	−19.451	− 36
488	ε Virginis	2.95	K 0	12 58 47.514	+2.9865	−185	+11 19 27.28	−19.370	+ 18
489	[ξ^2 Centauri]	4.40	B 3	13 2 55.771	+3.4943	− 35	−49 32 33.49	−19.323	− 30
490	ϑ Virginis	4.44	A 0	13 6 25.616	+3.1051	− 24	− 5 10 35.27	−19.248	− 39
491	[17 Can. ven.]	6.04	F 0	13 6 56.052	+2.7570	− 59	+38 51 35.20	−19.164	+ 32
492	43 Comae	4.32	G 0	13 8 42.117	+2.8009	−602	+28 13 20.65	−18.272	+878
493	[η Muscae]	4.95	B 8	13 10 37.140	+4.0497	− 33	−67 32 5.69	−19.130	− 30
494	[20 Can. ven.]	4.66	F 0	13 14 29.792	+2.6921	−107	+40 55 48.05	−18.986	+ 8
495	γ Hydrae	3.33	G 5	13 15 13.228	+3.2593	+ 51	−22 48 48.20	−19.028	− 53
496	ι Centauri	2.91	A 2	13 16 45.972	+3.3669	−294	−36 21 15.07	−19.022	− 92
497	ζ Urs. maj. pr.	2.40	A 2 p	13 21 11.486	+2.4183	+143	+55 16 48.13	−18.825	− 25
498	α Virginis	1.21	B 2	13 21 36.456	+3.1591	− 28	−10 48 25.00	−18.820	− 33
499	Grb 2001	6.07	K 5	13 24 23.877	+1.5277	+ 35	+72 44 39.29	−18.715	− 15
500	69 H. Urs. maj.	5.41	A 0	13 25 57.534	+2.2039	−109	+60 17 47.76	−18.614	+ 37
501	ζ Virginis	3.44	A 2	13 31 13.587	+3.0561	−190	− 0 14 56.03	−18.442	+ 35
502	17 H. Can. ven.	4.96	F 0	13 31 45.729	+2.6793	+ 64	+37 31 48.81	−18.472	− 13
503	[Chamael. 49 G.]	6.44	A 0	13 33 19.908	+5.0909	− 49	−75 20 16.17	−18.419	− 14
505	[Grb 2029]	5.67	K 0	13 35 32.811	+1.4389	− 86	+71 35 16.92	−18.328	0
504	ε Centauri	2.56	B 1	13 35 33.916	+3.7906	− 37	−53 7 17.40	−18.360	− 34
506	[ι Centauri]	4.36	F 5	13 41 48.983	+3.4045	−371	−32 42 2.16	−18.255	−156
507	τ Bootis	4.51	F 5	13 44 1.838	+2.8508	−340	+17 47 41.78	−17.986	+ 28
509	η Ursae maj.	1.91	B 3	13 44 51.835	+2.3661	−119	+49 39 7.38	−18.003	− 20
508	[μ Centauri]	3.32	B 2 p	13 45 30.630	+3.6072	− 28	−42 8 8.03	−17.976	− 19
510	89 Virginis	5.11	K 0	13 46 10.370	+3.2577	− 69	−17 47 45.94	−17.970	− 38
511	[ι Draconis]	4.77	M a	13 49 26.774	+1.7524	0	+65 3 31.73	−17.804	− 2
512	ζ Centauri	3.06	B 2 p	13 51 17.145	+3.7336	− 70	−46 57 16.39	−17.788	− 61
513	η Bootis	2.80	G 0	13 51 26.820	+2.8569	− 41	+18 44 16.38	−18.084	−364
514	[Cent. 294 G.]	4.68	K 0	13 52 42.455	+4.3259	− 46	−63 21 15.06	−17.703	− 35
515	[47 Hydrae]	5.17	B 8	13 54 41.910	+3.3636	− 34	−24 38 28.21	−17.626	− 40
517	11 Bootis	6.12	A 3	13 58 5.541	+2.7213	− 57	+27 42 51.39	−17.434	+ 8
516	τ Virginis	4.34	A 2	13 58 11.055	+3.0526	+ 13	+ 1 52 21.98	−17.467	− 30
518	β Centauri	0.86	B 1	13 59 0.436	+4.2208	− 28	−60 2 45.85	−17.442	− 40
519	[π Hydrae]	3.48	K 0	14 2 29.591	+3.4131	+ 30	−26 21 20.58	−17.401	−153

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
521	α Draconis	3.64	A o p	14 2 32.829	+1.6240	— 83	+64 42 1.58	—17.230	+ 16
520	ϑ Centauri	2.26	K o	14 2 40.334	+3.5249	— 439	—36 2 10.93	—17.771	— 530
522	*d* Bootis	4.82	F 5	14 7 17.911	+2.7370	— 12	+25 24 46.83	—17.100	— 69
524	4 Ursae min.	5.00	K o	14 9 4.971	—0.2570	— 112	+77 52 1.45	—16.916	+ 32
523	κ Virginis	4.31	K o	14 9 15.910	+3.1988	+ 4	— 9 57 28.98	—16.805	+ 134
525	ι Virginis	4.16	F 5	14 12 26.730	+3.1442	— 13	— 5 40 36.78	—17.220	— 431
526	α Bootis	0.24	K o	14 12 33.547	+2.7362	— 775	+19 32 8.42	—18.785	—2001
528	[ι Bootis]	4.78	A 5	14 13 45.524	+2.1253	— 159	+51 40 48.93	—16.640	+ 86
527	λ Bootis	4.26	A o	14 13 48.003	+2.2817	— 177	+46 23 59.41	—16.572	+ 152
529	[υ Centauri]	4.41	B 5	14 15 33.479	+4.1760	— 47	—56 4 28.48	—16.678	— 39
530	[Circini 10 G.]	5.71	A 2 p	14 19 26.138	+4.9486	— 41	—67 53 15.44	—16.483	— 36
531	ϑ Bootis	4.06	F 8	14 22 52.948	+2.0429	— 256	+52 9 51.81	—16.678	— 405
532	[52 Hydrae]	5.00	B 8	14 24 11.040	+3.5093	— 28	—29 11 13.37	—16.237	— 30
533	[φ Virginis]	4.97	K o	14 24 41.799	+3.0904	— 90	— 1 55 26.59	—16.188	— 7
534	ρ Bootis	3.78	K o	14 28 53.987	+2.5860	— 76	+30 40 8.69	—15.848	+ 113
535	γ Bootis	3.00	F o	14 29 20.437	+2.4165	— 93	+38 36 17.62	—15.793	+ 144
536	[Grb 2125]	6.18	F o	14 29 52.014	+1.6289	— 58	+60 31 29.13	—15.891	+ 18
537	η Centauri	2.65	B 3 p + A 2 p	14 31 10.793	+3.8031	— 36	—41 51 36.76	—15.875	— 36
538	*α Centauri	0.33 1.70	G o K 5	14 34 57.949	+4.0660	—4883	—60 33 21.14	—14.925	+ 709
540	[33 Bootis]	5.39	A o	14 36 18.402	+2.2327	— 67	+44 41 50.18	—15.586	— 26
539	[α Circini]	3.41	F o	14 36 59.153	+4.8279	— 320	—64 40 49.27	—15.762	— 239
541	[α Lupi]	2.89	B 2	14 37 23.787	+3.9826	— 20	—47 5 51.44	—15.536	— 36
543	ζ Bootis med.	4.83 4.43	A 2	14 37 54.042	+2.8645	+ 37	+14 1 8.40	—15.499	— 27
542	α Apodis	3.81	K 5	14 39 19.188	+7.3735	— 56	—78 45 30.21	—15.428	— 35
545	μ Virginis	3.95	F 5	14 39 28.423	+3.1602	+ 69	— 5 21 49.09	—15.711	— 326
544	[*c*[1] Centauri]	4.13	K o	14 39 29.424	+3.6640	— 61	—34 52 55.60	—15.581	— 198
546	[*b* Lupi]	5.20	K o	14 42 15.134	+4.1866	— 24	—52 5 49.28	—15.320	— 92
547	109 Virginis	3.76	A o	14 42 48.552	+3.0323	— 75	+ 2 10 41.94	—15.235	— 39
548	α Librae	2.90	A 3	14 47 6.739	+3.3164	— 77	—15 45 37.10	—15.021	— 74
549	Grb 2164	5.67	K 2	14 49 42.683	+1.5212	— 170	+59 34 10.84	—14.666	+ 129
550	β Ursae min.	2.24	K 5	14 50 53.016	—0.1891	— 78	+74 26 0.22	—14.719	+ 7
551	Pi XIV, 221	5.77	A o	14 53 0.596	+2.8314	— 10	+14 43 11.88	—14.617	— 18
552	β Lupi	2.81	B 2 p	14 54 4.045	+3.9217	— 51	—42 51 41.24	—14.596	— 60
553	[κ Centauri]	3.35	B 3	14 54 43.719	+3.8970	— 21	—41 49 57.45	—14.529	— 33
554	[2 H. Urs. min.]	4.86	M b	14 56 29.683	+0.9486	— 147	+66 12 10.87	—14.355	+ 34
555	β Bootis	3.63	G 5	14 59 23.073	+2.2600	— 36	+40 39 28.14	—14.254	— 43
556	γ Scorpii	3.41	M b	15 0 5.081	+3.5083	— 57	—25 0 57.63	—14.224	— 55
557	ψ Bootis	4.67	K o	15 1 31.895	+2.5708	— 131	+27 12 42.42	—14.094	— 15
558	ζ Lupi	3.50	K o	15 7 23.192	+4.3004	— 133	—51 50 30.49	—13.782	— 73
559	[ι Librae]	4.66	A o p	15 8 20.430	+3.4170	— 32	—19 32 8.30	—13.696	— 47

Nr. 538. Schwerpunkt des Systems. Abstand vom Schwerpunkt nach den Elementen von Lohse in den Publ. d. Astrophys. Obs. Potsdam No. 58

heller Stern: 1932.0 $\Delta\alpha = +0^s.305$ $\Delta\delta = +0''.10$

1933.0 $= +0\ .275$ $= -0\ .29$

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
562	[3 Serpentis]	5.44	K 0	15 11 48.447	+2.9815	− 12	+ 5 11 26.23	−13.431	− 7
561	[β Circini]	4.16	A 3	15 12 10.440	+4.6847	−130	−58 32 55.88	−13.550	− 149
560	γ Triang. austr.	3.06	A 0	15 12 32.033	+5.5801	−101	−68 25 48.77	−13.414	− 37
563	δ Bootis	3.54	K 0	15 12 45.681	+2.4193	+ 73	+33 34 3.12	−13.484	− 121
564	β Librae	2.74	B 8	15 13 20.687	+3.2270	− 64	− 9 7 59.62	−13.352	− 27
565	1 H. Urs. min.	5.23	G 0	15 13 51.044	+0.6843	+387	+67 36 16.71	−13.686	− 396
566	φ¹ Lupi	3.59	K 5	15 17 29.026	+3.8020	− 82	−36 0 57.92	−13.147	− 95
569	γ Ursae min.	3.14	A 2	15 20 49.315	−0.1045	− 32	+72 4 33.41	−12.813	+ 16
568	μ Bootis	4.47 6.66	F 0 K 0	15 21 55.266	+2.2664	−123	+37 36 53.02	−12.674	+ 80
570	[τ¹ Serpentis]	5.46	M a	15 22 38.097	+2.7820	− 11	+15 39 57.33	−12.730	− 24
571	ι Draconis	3.47	K 0	15 23 24.869	+1.3337	− 5	+59 12 13.44	−12.639	+ 14
567	[κ¹ Apodis]	5.65	B 5 p	15 24 3.671	+6.5043	+ 5	−73 9 21.71	−12.648	− 37
572	β Coron. bor.	3.72	F 0 p	15 25 1.517	+2.4740	−131	+29 20 20.65	−12.469	+ 76
573	ν¹ Bootis	5.15	K 5	15 28 29.182	+2.1550	+ 10	+41 3 50.28	−12.320	− 13
576	[ϑ Coron. bor.]	4.17	B 5	15 30 11.216	+2.4189	− 17	+31 35 15.03	−12.215	− 26
574	[ε Triang. austr.]	4.11	K 0	15 30 28.349	+5.4709	+ 29	−66 5 25.67	−12.251	− 82
575	γ Lupi	2.95	B 3	15 30 36.024	+3.9918	− 26	−40 56 22.96	−12.200	− 39
577	γ Librae	4.02	K 0	15 31 43.132	+3.3543	+ 43	−14 33 50.37	−12.079	+ 3
578	α Coron. bor.	2.31	A 0	15 31 48.495	+2.5401	+ 93	+26 56 32.87	−12.174	− 98
579	[3 H. Scorpii]	3.78	K 2	15 32 53.427	+3.6387	− 11	−27 54 40.67	−12.011	− 11
580	[φ Bootis]	5.41	G 5	15 35 23.062	+2.1548	+ 58	+40 34 25.98	−11.773	+ 52
581	[γ Coron. bor.]	3.93	A 0	15 39 53.214	+2.5197	− 74	+26 30 35.61	−11.471	+ 34
582	α Serpentis	2.75	K 0	15 40 55.015	+2.9543	+ 91	+ 6 38 18.14	−11.389	+ 42
583	β Serpentis	3.74	A 2	15 43 2.906	+2.7688	+ 51	+15 38 0.32	−11.332	− 54
587	[12 H. Dracon.]	5.13	A 2	15 45 37.501	+0.9118	+ 55	+62 48 33.36	−11.152	− 61
584	κ Serpentis	4.28	K 5	15 45 40.690	+2.7005	− 31	+18 21 1.30	−11.185	− 98
585	μ Serpentis	3.63	A 0	15 46 4.140	+3.1297	− 59	− 3 13 24.35	−11.090	− 32
590	ζ Ursae min.	4.34	A 2	15 46 26.762	−2.1722	+ 60	+78 0 16.33	−11.031	− 1
586	[χ Lupi]	4.11	B 9	15 46 37.869	+3.8081	− 15	−33 25 17.00	−11.047	− 30
588	ε Serpentis	3.75	A 2	15 47 25.471	+2.9897	+ 84	+ 4 40 52.23	−10.899	+ 59
589	β Triang. austr.	3.04	F 0	15 49 8.009	+5.2730	−278	−63 13 22.05	−11.241	− 407
591	[γ Serpentis]	3.86	F 5	15 53 18.651	+2.7707	+213	+15 52 56.20	−11.819	−1294
592	[π Scorpii]	3.00	B 2	15 54 43.977	+3.6263	− 15	−25 55 11.78	−10.455	− 37
593	ε Coron. bor.	4.22	K 0	15 54 46.271	+2.4832	− 61	+27 4 25.21	−10.484	− 68
595	[Grb 2296]	4.96	A 5	15 56 10.438	+1.4212	−187	+54 56 28.63	−10.200	+ 111
594	δ Scorpii	2.54	B 0	15 56 18.510	+3.5453	− 8	−22 25 47.08	−10.337	− 36
598	ϑ Draconis	4.11	F 8	16 0 36.745	+1.1229	−402	+58 44 47.06	− 9.636	+ 339
597	β Scorpii	2.90 5.06	B 1	16 1 28.742	+3.4863	− 7	−19 37 14.94	− 9.937	− 27
596	[δ Normae]	4.84	A 3 p	16 1 40.605	+4.2341	− 5	−44 59 26.26	− 9.889	+ 6
599	[ϑ Lupi]	4.33	B 3	16 2 7.191	+3.9347	− 29	−36 37 7.62	− 9.902	− 41

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
601	[φ Herculis]	4.26	B 9 p	16 6 37.576	+1.8900	— 23	+45 6 44.24	−9.485	+ 31
600	[κ Normae]	5.09	K 0	16 8 6.108	+4.7206	— 42	−54 27 24.74	−9.468	— 65
602	[δ Triang. austr.]	4.03	G 0	16 9 13.948	+5.4483	+ 8	−63 30 50.76	−9.341	— 26
603	δ Ophiuchi	3.03	M a	16 10 46.794	+3.1430	— 30	— 3 31 14.28	−9.344	−150
606	19 Ursae min.	5.51	B 8	16 12 44.254	−1.7283	— 4	+76 2 58.13	−9.030	+ 12
605	ε Ophiuchi	3.34	K 0	16 14 43.254	+3.1731	+ 53	— 4 31 41.51	−8.856	+ 31
604	γ² Normae	4.14	K 0	16 14 44.487	+4.4809	−190	−49 59 25.87	−8.947	— 61
607	[σ Scorpii]	3.08	B 1	16 17 3.057	+3.6442	— 11	−25 25 52.61	−8.737	— 33
608	τ Herculis	3.91	B 5	16 17 41.744	+1.8030	— 9	+46 28 27.97	−8.621	+ 32
609	γ Herculis	3.79	F 0	16 18 55.144	+2.6458	— 36	+19 18 41.88	−8.517	+ 40
612	[η Ursae min.]	5.04	F 0	16 19 28.098	−1.7698	−219	+75 54 46.06	−8.257	+256
610	[ζ Triang. austr.]	4.93	G 0	16 21 7.655	+6.4326	+366	−69 56 1.79	−8.298	+ 84
613	[ω Herculis]	4.53	A 0 p	16 22 16.584	+2.7682	+ 28	+14 11 18.50	−8.359	— 68
614	[Grb 2343]	5.66	A 2	16 22 56.001	+1.3117	+ 19	+55 21 32.77	−8.220	+ 18
611	γ Apodis	3.90	K 0	16 22 57.694	+9.1580	−384	−78 44 52.88	−8.307	— 71
615	η Draconis	2.89	G 5	16 23 3.948	+0.8101	— 28	+61 40 4.00	−8.167	+ 61
616	α Scorpii	1.22	M a + A 3	16 25 14.046	+3.6766	— 7	−26 16 57.78	−8.082	— 28
618	β Herculis	2.81	K 0	16 27 17.746	+2.5787	— 69	+21 38 11.64	−7.909	— 21
617	[λ Ophiuchi]	3.85	A 0	16 27 28.916	+3.0249	— 23	+ 2 7 52.43	−7.964	— 90
619	*A* Draconis	4.98	B 8 p	16 28 6.414	−0.1231	— 51	+68 54 55.09	−7.788	+ 35
620	[τ Scorpii]	2.91	B 0	16 31 38.702	+3.7324	— 11	−28 4 35.86	−7.571	— 33
621	σ Herculis	4.25	A 0	16 31 54.614	+1.9341	— 6	+42 34 34.80	−7.477	+ 38
622	ζ Ophiuchi	2.70	B 0	16 33 24.729	+3.3025	+ 9	−10 25 50.99	−7.372	+ 22
623	[Grb 2373]	6.39	G 5	16 33 32.373	−2.6016	−322	+77 34 58.55	−7.109	+274
624	[24 Scorpii]	5.04	K 0	16 37 38.230	+3.4682	— 18	−17 36 43.38	−7.052	— 3
626	η Herculis	3.61	K 0	16 40 33.851	+2.0568	+ 35	+39 3 2.42	−6.893	— 84
625	α Triang. austr.	1.88	K 2	16 41 26.736	+6.3387	+ 32	−68 54 20.24	−6.785	— 49
627	Grb 2377	4.88	F 0	16 44 0.310	+1.1374	+ 28	+56 54 9.89	−6.467	+ 58
628	ε Scorpii	2.36	K 0	16 45 45.243	+3.8828	−501	−34 10 17.12	−6.636	−255
629	49 Herculis	6.41	A 0 p	16 48 59.042	+2.7311	+ 12	+15 5 13.06	−6.119	— 6
630	ζ² Scorpii	3.75	K 5	16 49 47.493	+4.2167	−133	−42 14 48.03	−6.283	−238
631	ζ Arae	3.06	K 5	16 52 59.087	+4.9588	— 30	−55 53 5.66	−5.826	— 48
632	[ε¹ Arae]	4.15	K 2	16 54 9.322	+4.7752	— 19	−53 3 29.48	−5.688	— 8
633	κ Ophiuchi	3.42	K 0	16 54 26.900	+2.8390	−198	+ 9 28 45.83	−5.668	— 13
634	ε Herculis	3.92	A 0	16 57 41.235	+2.2953	— 35	+31 1 31.57	−5.359	+ 24
635	[60 Herculis]	4.91	A 3	17 2 13.428	+2.7815	+ 34	+12 49 58.32	−5.015	— 15
636	[Grb 2415]	6.27	A 2	17 5 33.596	+1.9567	— 29	+40 36 14.62	−4.745	— 28
637	η Ophiuchi	2.63	A 2	17 6 28.557	+3.4392	+ 23	−15 38 32.29	−4.548	+ 90
638	[η Scorpii]	3.44	F 2	17 7 16.715	+4.2944	+ 17	−43 9 5.27	−4.868	−298
639	ζ Draconis	3.22	B 5	17 8 35.158	+0.1715	— 29	+65 47 53.83	−4.437	+ 22

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
640	α Herculis	3.48 5.39	M b	17 11 32.748	+2.7351	− 8	+14 27 59.35	−4.177	+ 29
641	δ Herculis	3.16	A 2	17 12 14.269	+2.4641	− 15	+24 55 5.62	−4.306	−159
643	π Herculis	3.36	K 5	17 12 40.679	+2.0894	− 21	+36 53 5.23	−4.108	+ 1
642	[ι Apodis]	5.60	B 8	17 14 29.992	+6.6815	− 14	−70 3 16.61	−3.980	− 27
644	ϑ Ophiuchi	3.37	B 3	17 17 49.849	+3.6830	− 7	−24 55 59.96	−3.692	− 25
645	β Arae	2.80	K 2	17 19 38.517	+4.9835	− 14	−55 28 4.43	−3.553	− 42
646	[d Ophiuchi]	4.37	F 5	17 23 0.554	+3.8291	+ 6	−29 48 25.97	−3.366	−145
647	[27 H. Ophiuchi]	4.61	F 0	17 23 1.341	+3.1831	− 58	− 5 1 40.89	−3.271	− 51
650	[x Herculis]	5.81	A 2	17 24 56.053	+1.5900	+ 2	+48 18 58.14	−3.073	− 19
648	δ Arae	3.79	B 8	17 24 57.316	+5.4126	− 70	−60 37 45.81	−3.154	−101
649	[υ Scorpii]	2.80	B 3	17 26 8.138	+4.0754	− 24	−37 14 36.35	−2.990	− 39
651	α Arae	2.97	B 3 p	17 26 34.867	+4.6350	− 38	−49 49 28.15	−3.006	− 94
653	β Draconis	2.99	G 0	17 28 53.722	+1.3553	− 15	+52 21 3.65	−2.702	+ 10
652	λ Scorpii	1.71	B 2	17 28 59.255	+4.0713	− 14	−37 3 21.57	−2.736	− 32
655	[ν¹ Draconis]	4.98	A 5	17 30 50.181	+1.1813	+176	+55 13 48.28	−2.493	+ 51
657	[ν² Draconis]	4.95	A 5	17 30 55.610	+1.1825	+181	+55 13 7.12	−2.484	+ 52
656	α Ophiuchi	2.14	A 5	17 31 46.612	+2.7843	+ 80	+12 36 29.29	−2.695	−233
659	[f Draconis]	5.21	K 0	17 32 13.942	−0.2432	− 33	+68 10 42.42	−2.289	+134
654	ϑ Scorpii	2.04	F 0	17 32 25.736	+4.3082	0	−42 57 23.80	−2.423	− 18
658	ξ Serpentis	3.64	A 5	17 33 41.470	+3.4341	− 34	−15 21 26.53	−2.360	− 65
664	ω Draconis	4.87	F 5	17 37 20.802	−0.3525	+ 10	+68 47 22.41	−1.655	+323
663	ι Herculis	3.79	B 3	17 37 32.670	+1.6933	− 5	+46 2 29.60	−1.964	− 4
660	[κ Scorpii]	2.51	B 2	17 37 46.842	+4.1483	− 15	−38 59 48.17	−1.967	− 26
662	[μ Arae]	5.26	G 5	17 38 44.519	+4.7609	− 29	−51 48 0.04	−2.065	−208
661	η Pavonis	3.58	K 0	17 39 3.211	+5.8851	− 22	−64 41 37.40	−1.885	− 56
665	β Ophiuchi	2.94	K 0	17 40 6.744	+2.9632	− 27	+ 4 35 39.19	−1.584	+153
666	[ι¹ Scorpii]	3.14	F 5 p	17 42 49.547	+4.1941	− 10	−40 6 8.63	−1.503	− 3
670	ψ Draconis	4.90 6.07	F 5	17 43 8.588	−1.0704	+ 32	+72 10 57.77	−1.740	−267
667	μ Herculis	3.48	G 5	17 43 47.751	+2.3473	−240	+27 45 33.47	−2.167	−751
668	[γ Ophiuchi]	3.74	A 0	17 44 28.933	+3.0078	− 16	+ 2 43 53.05	−1.433	− 77
669	[G Scorpii]	3.25	K 2	17 45 13.671	+4.0828	+ 41	−37 1 24.45	−1.265	+ 26
671	ξ Draconis	3.90	K 0	17 52 21.161	+1.0376	+120	+56 52 58.03	−0.592	+ 77
675	35 Draconis	5.04	F 5	17 52 29.411	−2.6885	+112	+76 58 22.85	−0.415	+241
672	ϑ Herculis	3.99	K 0	17 53 55.224	+2.0572	+ 4	+37 15 30.68	−0.527	+ 5
676	γ Draconis	2.42	K 5	17 55 1.591	+1.3928	− 9	+51 29 46.23	−0.457	− 22
674	[ξ Herculis]	3.82	K 0	17 55 7.317	+2.3313	+ 66	+29 15 14.28	−0.452	− 25
673	ν Ophiuchi	3.50	K 0	17 55 16.923	+3.3022	− 7	− 9 46 0.35	−0.530	−118
677	67 Ophiuchi	3.92	B 5 p	17 57 14.326	+3.0045	0	+ 2 56 0.20	−0.255	− 13
679	γ Sagittarii	3.07	K 0	18 1 26.307	+3.8530	− 47	−30 25 36.22	−0.068	−194
678	[Apodis 66 G.]	5.69	K 5	18 1 44.582	+8.3869	− 43	−75 53 46.84	−0.117	−270

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
680	72 Ophiuchi	3.73	A 3	18 4 7.514	+2.8439	− 42	+ 9 33 10.11	+0.439	+ 78
681	o Herculis	3.83	A 0	18 4 53.370	+2.3402	+ 2	+28 45 6.83	+0.427	0
682	μ Sagittarii	4.01	B 8 p	18 9 41.763	+3.5873	− 3	−21 4 41.97	+0.845	− 3
683	[η Sagittarii]	3.16	M b	18 13 1.491	+4.0587	− 117	−36 47 1.83	+0.975	−163
685	[36 Draconis]	5.03	F 5	18 13 30.313	+0.3452	+ 533	+64 22 26.49	+1.211	+ 31
684	[Grb 2533]	5.42	B 5	18 13 31.823	+1.8655	− 6	+42 8 6.51	+1.176	− 7
687	[δ Sagittarii]	2.84	K 0	18 16 38.431	+3.8407	+ 27	−29 51 31.44	+1.422	− 32
686	[ξ Pavonis]	4.25	K 2	18 16 57.559	+5.5275	− 26	−61 31 36.72	+1.499	+ 17
688	η Serpentis	3.42	K 0	18 17 47.435	+3.1037	− 372	− 2 55 4.62	+0.855	−699
689	ε Sagittarii	1.95	A 0	18 19 39.501	+3.9822	− 30	−34 25 6.58	+1.590	−127
690	109 Herculis	3.92	K 0	18 20 47.988	+2.5563	+ 140	+21 44 14.72	+1.560	−257
693	[φ Draconis]	4.24	A 0 p	18 21 44.070	−0.8593	− 17	+71 18 7.02	+1.931	+ 33
691	α Telescopii	3.76	B 3	18 21 55.890	+4.4486	− 21	−46 0 27.74	+1.868	− 48
695	χ Draconis	3.69	F 8	18 22 17.064	−1.0810	+1170	+72 42 13.61	+1.584	−362
694	*b* Draconis	4.85	A 2	18 22 55.069	+0.8764	− 45	+58 45 38.93	+2.059	+ 58
692	[λ Sagittarii]	2.94	K 0	18 23 46.423	+3.7021	− 37	−25 27 39.46	+1.888	−188
696	[2 H. Scuti]	4.73	A 3	18 25 19.286	+3.4189	− 3	−14 36 38.24	+2.212	+ 2
697	[ϑ Coron. austr.]	4.69	G 5	18 28 38.805	+4.2835	+ 15	−42 21 48.09	+2.475	− 24
700	[Grb 2655]	5.84	K 0	18 33 2.668	−2.8907	− 10	+77 29 42.93	+2.877	− 3
699	α Lyrae	0.14	A 0	18 34 38.153	+2.0314	+ 176	+38 43 9.66	+3.299	+281
698	ζ Pavonis	4.10	K 0	18 35 5.871	+7.0152	− 24	−71 29 22.50	+2.880	−178
701	[Grb 2640]	6.00	A 3	18 36 0.513	+0.1883	+ 18	+65 25 39.81	+3.221	+ 84
702	[5 H. Scuti]	5.09	G 5	18 39 49.056	+3.2672	+ 13	− 8 20 37.83	+3.474	+ 9
703	110 Herculis	4.26	F 5	18 42 44.077	+2.5813	− 12	+20 28 47.83	+3.376	−340
704	λ Pavonis	4.42	B 2	18 45 55.239	+5.5613	− 25	−62 16 4.56	+3.962	− 28
705	*β Lyrae	var.	B 8 p +B 2 p	18 47 34.145	+2.2149	+ 3	+33 16 57.81	+4.129	− 2
707	o Draconis	4.78	K 0	18 50 11.960	+0.8863	+ 105	+59 18 17.20	+4.380	+ 25
706	σ Sagittarii	2.14	B 3	18 51 2.958	+3.7198	+ 4	−26 22 58.56	+4.365	− 63
709	ϑ Serpent. pr.	4.50	A 5	18 52 50.336	+2.9823	+ 29	+ 4 6 49.19	+4.608	+ 28
708	λ Telescopii	5.03	B 9	18 53 1.544	+4.8011	+ 3	−53 1 45.64	+4.611	+ 14
711	**R* Lyrae	var.	M b	18 53 15.980	+1.8263	+ 28	+43 51 20.02	+4.693	+ 76
710	[ξ Sagittarii]	3.61	K 0	18 53 40.422	+3.5788	+ 18	−21 11 51.62	+4.635	− 16
714	[υ Draconis]	4.91	K 0	18 55 14.244	−0.7300	+ 103	+71 12 23.73	+4.825	+ 41
713	γ Lyrae	3.30	A 0 p	18 56 23.960	+2.2439	− 4	+32 35 42.69	+4.881	− 2
712	[ε Aquilae]	4.21	K 0	18 56 32.128	+2.7221	− 42	+14 58 28.56	+4.814	− 80
715	[ζ Sagittarii]	2.71	A 2	18 58 17.157	+3.8169	− 21	−29 58 44.19	+5.045	+ 2
716	ζ Aquilae	3.02	A 0	19 2 17.055	+2.7570	− 7	+13 45 39.73	+5.280	−101
717	λ Aquilae	3.55	B 9	19 2 38.423	+3.1836	− 16	− 4 59 9.31	+5.324	− 87
718	α Coron. austr.	4.12	A 2	19 4 50.835	+4.0818	+ 59	−38 0 44.11	+5.487	−109
719	[ι Lyrae]	5.13	B 5	19 4 52.496	+2.1407	− 3	+35 59 33.14	+5.595	− 3

Nr. 705. Größe: Max. 3.4. Min. 4.1 Nr. 711. Größe: Max. 4.0. Min. 4.7, Größe in Harvard 50 = 4.32

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
720	π Sagittarii	3.02	F 2	19 5 43.234	+3.5678	− 5	−21 7 59.85	+ 5.634	− 35
721	[Pavonis 60 G.]	5.57	A 2	19 10 22.484	+6.0414	− 7	−66 46 51.37	+ 6.038	− 21
723	δ Draconis	3.24	K 0	19 12 32.668	+0.0175	+ 167	+67 32 30.69	+ 6.327	+ 88
722	[d Sagittarii]	5.03	K 0	19 13 39.439	+3.5101	− 12	−19 4 31.39	+ 6.323	− 9
724	ϑ Lyrae	4.46	K 0	19 14 0.428	+2.0818	− 7	+38 0 41.76	+ 6.359	− 1
725	ω Aquilae	5.14	A 5	19 14 37.467	+2.8157	− 3	+11 28 17.37	+ 6.425	+ 13
726	κ Cygni	3.98	K 0	19 15 31.927	+1.3871	+ 69	+53 14 32.21	+ 6.606	+ 119
729	τ Draconis	4.63	K 0	19 16 52.293	−1.1469	− 326	+73 13 47.17	+ 6.707	+ 109
727	[υ Sagittarii]	4.58	B 8 p + F 2 p	19 17 50.040	+3.4363	0	−16 5 2.64	+ 6.675	− 2
728	α Sagittarii	4.11	B 8	19 19 10.642	+4.1579	+ 18	−40 44 43.96	+ 6.670	− 118
730	δ Aquilae	3.44	F 0	19 22 4.191	+3.0246	+ 167	+ 2 58 40.23	+ 7.107	+ 81
731	[Sagittar. 186 G.]	5.68	B 9	19 22 38.743	+3.7920	+ 7	−29 52 45.36	+ 7.026	− 47
734	[Grb 2900]	6.00	A 2	19 25 50.610	−3.6066	+ 97	+79 28 4.96	+ 7.298	− 35
732	*β Cygni	3.24	K 0 + A 0	19 27 58.709	+2.4191	− 2	+27 48 56.56	+ 7.499	− 8
733	ι Cygni	3.94	A 2	19 27 59.524	+1.5128	+ 22	+51 35 2.86	+ 7.633	+ 125
735	[ι Telescopii]	5.02	K 0	19 30 10.467	+4.4514	− 41	−48 14 51.13	+ 7.645	− 40
736	h Sagittarii	4.66	B 9	19 32 34.254	+3.6514	+ 46	−25 2 6.82	+ 7.856	− 22
737	[κ Aquilae]	5.04	B 0	19 33 14.052	+3.2278	+ 3	− 7 10 47.99	+ 7.931	0
738	ϑ Cygni	4.64	F 5	19 34 37.058	+1.6081	− 29	+50 3 45.87	+ 8.289	+ 247
740	[15 Cygni]	5.02	K 0	19 41 49.424	+2.1633	+ 59	+37 11 20.94	+ 8.651	+ 36
739	[ν Telescopii]	5.52	A 5	19 42 28.454	+4.9039	+ 86	−56 31 40.33	+ 8.530	− 137
742	δ Cygni	2.97	A 0	19 42 50.999	+1.8756	+ 51	+44 57 49.85	+ 8.736	+ 40
741	γ Aquilae	2.80	K 2	19 43 1.602	+2.8519	+ 9	+10 26 46.84	+ 8.710	0
743	δ Sagittae	3.78	Ma + A 0	19 44 21.327	+2.6749	+ 4	+18 21 55.36	+ 8.828	+ 13
744	[51 Aquilae]	5.55	F 0	19 47 2.394	+3.3014	− 21	−10 56 14.24	+ 9.066	+ 41
745	α Aquilae	0.89	A 5	19 47 27.921	+2.9267	+ 360	+ 8 41 14.96	+ 9.442	+ 383
747	ε Draconis	3.99	K 0	19 48 24.765	−0.1966	+ 156	+70 5 40.92	+ 9.162	+ 30
746	*[η Aquilae]	var.	G 0 p	19 49 0.573	+3.0563	+ 6	+ 0 49 47.27	+ 9.170	− 9
749	β Aquilae	3.90	K 0	19 51 58.374	+2.9465	+ 25	+ 6 14 8.49	+ 8.929	− 480
748	ε Pavonis	4.10	A 0	19 52 45.440	+6.9624	+ 148	−73 5 33.10	+ 9.337	− 132
750	ψ Cygni	4.80	A 3	19 53 52.331	+1.5511	− 43	+52 15 27.77	+ 9.523	− 31
751	ϑ¹ Sagittarii	4.39	B 3	19 55 18.775	+3.9056	− 12	−35 27 42.43	+ 9.629	− 36
752	γ Sagittae	3.71	K 5	19 55 43.949	+2.6675	+ 43	+19 18 22.76	+ 9.721	+ 24
753	[c Sagittarii]	4.60	Mb	19 58 28.768	+3.6901	+ 21	−27 54 1.21	+ 9.924	+ 18
754	δ Pavonis	3.64	G 5	20 2 4.346	+5.8989	+1963	−66 21 27.98	+ 9.019	−1160
755	[ξ Telescopii]	4.86	Ma	20 2 10.915	+4.6001	− 44	−53 4 38.22	+10.185	− 2
756	ϑ Aquilae	3.37	A 0	20 7 47.812	+3.0954	+ 22	− 1 1 27.92	+10.612	+ 6
759	κ Cephei	4.40	B 9	20 11 12.718	−1.9954	+ 12	+77 30 26.82	+10.886	+ 27
757	o¹ Cygni sq.	3.95	K 0 + B 8	20 11 29.418	+1.8892	+ 4	+46 32 3.33	+10.880	+ 1
758	[33 Cygni]	4.32	A 3	20 11 49.091	+1.3952	+ 74	+56 21 32.94	+10.989	+ 85

Nr. 732. Größe und Spektrum beziehen sich auf die hellere Komponente. Die entsprechenden Werte für die schwächere Komponente sind 5.36 und B 9. Nr. 746. Größe: Max. 3.7, Min. 4.5

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
760	24 Vulpeculae	5.45	K 0	20 13 52.487	+2.5671	+ 12	+24 27 37.98	+11.035	− 19
761	α² Capricorni	3.77	G 5	20 14 16.999	+3.3290	+ 40	−12 45 24.51	+11.095	+ 11
762	[β Capricorni]	3.25	G 0 + A 0	20 17 11.538	+3.3709	+ 23	−14 59 50.57	+11.301	+ 6
763	[κ¹ Sagittarii]	5.64	A 0	20 17 50.868	+4.0780	+ 37	−42 15 55.62	+11.246	− 96
765	γ Cygni	2.32	F 8 p	20 19 47.232	+2.1530	+ 4	+40 2 17.36	+11.482	0
764	α Pavonis	2.12	B 3	20 20 16.798	+4.7552	+ 11	−56 57 16.42	+11.432	− 85
766	[ρ Capricorni]	4.96	F 0	20 24 59.041	+3.4226	− 14	−18 2 22.84	+11.835	− 16
767	ϑ Cephei	4.28	A 5	20 28 26.636	+1.0088	+ 63	+62 45 54.39	+12.080	− 14
768	ε Delphini	3.98	B 5	20 29 57.855	+2.8660	+ 5	+11 4 15.57	+12.175	− 25
770	73 Draconis	5.18	A 2 p	20 32 25.596	−0.7748	+ 16	+74 43 18.80	+12.358	− 12
769	α Indi	3.21	K 0	20 32 47.433	+4.2235	+ 33	−47 31 48.44	+12.455	+ 60
771	β Delphini	3.72	F 5	20 34 21.608	+2.8130	+ 74	+14 21 26.95	+12.466	− 36
772	[κ Delphini]	5.23	G 5	20 35 49.600	+2.9138	+ 212	+ 9 50 44.07	+12.621	+ 18
773	υ Capricorni	5.33	M a	20 36 10.871	+3.4160	− 17	−18 22 45.46	+12.610	− 16
774	α Delphini	3.86	B 8	20 36 28.773	+2.7865	+ 45	+15 40 15.75	+12.641	− 6
775	β Pavonis	3.60	A 5	20 38 51.209	+5.4243	− 71	−66 26 57.99	+12.809	+ 1
776	[η Indi]	4.70	F 0	20 39 3.264	+4.4112	+ 157	−52 9 55.93	+12.748	− 73
777	α Cygni	1.33	A 2 p	20 39 6.790	+2.0451	+ 4	+45 2 11.46	+12.824	− 1
778	[δ Delphini]	4.53	A 5	20 40 17.053	+2.8008	− 14	+14 49 46.24	+12.856	− 48
779	[ψ Capricorni]	4.26	F 8	20 42 4.358	+3.5534	− 44	−25 30 59.64	+12.865	− 157
780	ε Cygni	2.64	K 0	20 43 27.555	+2.4276	+ 290	+33 42 52.75	+13.442	+ 328
782	[6 H. Cephei]	4.63	G 0	20 43 39.890	+1.4893	− 86	+57 20 6.46	+12.894	− 234
783	η Cephei	3.59	K 0	20 43 54.576	+1.2222	+ 130	+61 34 27.06	+13.963	+ 819
781	ε Aquarii	3.83	A 0	20 43 59.779	+3.2479	+ 17	− 9 44 44.79	+13.122	− 28
784	λ Cygni	4.47	B 5	20 44 45.533	+2.3364	+ 5	+36 14 24.22	+13.200	0
785	β Indi	3.72	K 0	20 49 30.451	+4.6972	0	−58 42 43.87	+13.483	− 27
786	32 Vulpeculae	5.24	K 5	20 51 39.672	+2.5566	− 4	+27 47 53.16	+13.650	+ 1
788	ν Cygni	4.04	A 0	20 54 38.226	+2.2363	+ 9	+40 54 16.15	+13.820	− 17
787	[α Octantis]	5.24	F 2	20 56 32.576	+7.3221	− 12	−77 17 6.48	+13.603	− 355
789	[11 Aquarii]	6.26	G 0	20 56 59.046	+3.1589	+ 23	− 4 59 38.38	+13.853	− 133
790	ζ Microscopii	5.35	F 0	20 58 37.544	+3.8363	− 36	−38 53 54.12	+13.966	− 122
792	[ξ Cygni]	3.92	K 5	21 2 27.409	+2.1822	+ 12	+43 39 20.57	+14.322	− 3
791	[A Capricorni]	4.60	M a	21 3 9.196	+3.5100	− 30	−25 16 43.95	+14.320	− 47
793	61 Cygni pr.	5.57	K 5	21 3 50.815	+2.6869	+3505	+38 24 50.93	+17.666	+3257
794	ν Aquarii	4.52	K 0	21 5 53.531	+3.2689	+ 62	−11 38 52.92	+14.524	− 9
795	Br 2777	5.90	B 9	21 6 53.599	−1.1749	+ 74	+77 51 3.79	+14.629	+ 36
797	ζ Cygni	3.40	K 0	21 10 2.462	+2.5528	− 1	+29 56 49.62	+14.722	− 59
798	[Grb 3415]	5.65	B 2	21 10 4.410	+1.5275	− 6	+59 42 23.02	+14.780	− 2
796	[Indi 23 G.]	5.84	A 5	21 10 54.865	+4.2878	− 19	−53 32 46.26	+14.786	− 46
799	[τ Cygni]	3.82	F 0	21 12 4.529	+2.3944	+ 137	+37 45 15.80	+15.336	+ 435

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		M		h m s	s		° ′ ″	″	
800	α Equulei	4.14	F 8 +A 3	21 12 25.511	+2.9992	+ 38	+ 4 57 56.55	+14.833	− 87
801	[4 Pisc. austr.]	4.79	A 0	21 13 49.141	+3.6401	+ 35	−32 27 28.13	+14.975	− 26
802	[ϑ¹ Microscop.]	4.92	A 2 p	21 16 25.130	+3.8431	+ 70	−41 5 52.40	+15.165	+ 14
803	α Cephei	2.60	A 5	21 16 57.463	+1.4326	+ 212	+62 17 49.16	+15.232	+ 50
804	1 Pegasi	4.24	K 0	21 18 56.462	+2.7742	+ 74	+19 30 45.46	+15.356	+ 61
805	γ Pavonis	4.30	F 8	21 20 50.601	+4.9776	+ 128	−65 40 31.47	+16.190	+ 788
806	ζ Capricorni	3.86	G 5 p	21 22 47.296	+3.4270	− 1	−22 42 24.97	+15.533	+ 23
807	[*g* Cygni]	5.34	K 0	21 26 56.324	+2.2136	+ 48	+46 14 24.06	+15.841	+ 103
809	β Cephei	3.32	B 1	21 27 47.430	+0.7793	+ 20	+70 15 43.03	+15.790	+ 7
808	β Aquarii	3.07	G 0	21 27 58.826	+3.1586	+ 11	− 5 52 16.44	+15.789	− 5
810	ν Octantis	3.74	K 0	21 33 59.023	+6.7303	+ 134	−77 41 37.74	+15.856	− 256
811	74 Cygni	5.09	A 5	21 34 13.296	+2.4040	− 3	+40 6 26.31	+16.136	+ 12
812	[γ Capricorni]	3.80	F 0 p	21 36 19.575	+3.3252	+ 131	−16 58 13.10	+16.217	− 16
813	[13 H. Cephei]	5.64	Oe 5	21 36 51.028	+1.8620	+ 7	+57 10 51.72	+16.262	+ 2
815	ε Pegasi	2.54	K 0	21 40 50.758	+2.9463	+ 18	+ 9 33 44.52	+16.461	0
814	[ι Pisc.austr.]	4.35	A 0	21 40 54.051	+3.5761	+ 18	−33 20 12.96	+16.375	− 89
817	[11 Cephei]	4.85	K 0	21 40 55.935	+0.8836	+ 234	+70 59 53.00	+16.564	+ 98
816	[κ Pegasi]	4.27	F 5	21 41 33.871	+2.7161	+ 25	+25 19 54.06	+16.507	+ 10
818	[λ Capricorni]	5.43	A 0	21 42 52.618	+3.2305	+ 20	−11 40 49.32	+16.558	− 4
819	δ Capricorni	2.98	A 5	21 43 17.400	+3.3122	+ 178	−16 26 12.27	+16.289	− 293
821	π² Cygni	4.26	B 3	21 44 16.756	+2.2159	+ 8	+48 59 39.23	+16.627	− 4
820	[ο Indi]	5.50	K 2	21 45 3.749	+5.0973	− 87	−69 56 50.22	+16.648	− 21
822	γ Gruis	3.16	B 8	21 49 48.995	+3.6359	+ 77	−37 41 8.18	+16.878	− 18
823	16 Pegasi	5.05	B 3	21 49 58.004	+2.7292	+ 4	+25 36 16.14	+16.905	+ 1
824	[δ Indi]	4.56	F 0	21 53 18.092	+4.0912	+ 43	−55 19 1.76	+17.029	− 29
826	[20 Pegasi]	5.66	F 2	21 57 46.537	+2.9222	+ 36	+12 47 36.26	+17.207	− 54
825	[ε Indi]	4.74	K 5	21 58 10.351	+4.5995	+4809	−57 3 59.87	+14.703	−2576
827	α Aquarii	3.19	G 0	22 2 17.514	+3.0813	+ 10	− 0 39 3.38	+17.451	− 7
828	ι Aquarii	4.35	B 8	22 2 46.008	+3.2408	+ 24	−14 12 1.07	+17.427	− 51
830	20 Cephei	5.39	K 5	22 2 56.419	+1.8227	+ 22	+62 27 12.43	+17.546	+ 60
831	[ι Pegasi]	3.96	F 5	22 3 50.625	+2.7922	+ 219	+25 0 44.11	+17.546	+ 22
829	α Gruis	2.16	B 5	22 3 57.356	+3.7869	+ 119	−47 17 29.15	+17.358	− 171
832	[μ Pisc. austr.]	4.62	A 2	22 4 25.167	+3.5015	+ 41	−33 19 16.37	+17.508	− 41
833	[27 Pegasi]	5.65	K 0	22 6 12.748	+2.6579	− 42	+32 50 22.26	+17.559	− 65
834	ϑ Pegasi	3.70	A 2	22 6 46.183	+3.0263	+ 184	+ 5 51 45.39	+17.678	+ 31
835	π Pegasi	4.38	F 5	22 6 57.912	+2.6636	− 9	+32 50 38.11	+17.636	− 19
836	ζ Cephei	3.62	K 0	22 8 29.521	+2.0796	+ 14	+57 51 55.97	+17.724	+ 6
837	24 Cephei	4.99	G 5	22 8 30.247	+1.1549	+ 54	+72 0 21.60	+17.726	+ 8
838	[λ Pisc.austr.]	5.40	B 9	22 10 27.763	+3.4028	+ 16	−28 6 17.08	+17.797	− 1
839	[ε Octantis]	5.11	M b	22 12 30.075	+6.8077	+ 137	−80 46 46.24	+17.839	− 40

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ′ ″	″	
840	ϑ Aquarii	4.32	K o	22 13 14.814	+3.1662	+ 76	− 8 7 21.23	+17.890	− 19
841	α Tucanae	2.91	K 2	22 13 51.554	+4.1226	− 98	−60 35 58.08	+17.883	− 49
842	γ Aquarii	3.97	A o	22 18 8.674	+3.0986	+ 83	− 1 43 50.54	+18.104	+ 7
843	[31 Pegasi]	4.93	B 3 p	22 18 10.188	+2.9522	− 1	+11 51 43.00	+18.107	+ 9
844	3 Lacertae	4.58	K o	22 20 52.939	+2.3575	− 15	+51 53 16.02	+18.008	−191
845	[ν Gruis]	5.48	K o	22 24 40.401	+3.5201	+ 24	−39 28 35.51	+18.173	−162
846	[δ¹ Gruis]	4.02	G 5	22 25 12.725	+3.5904	+ 17	−43 50 37.38	+18.346	− 8
847	*[δ Cephei]	var.	veränd.	22 26 38.526	+2.2252	+ 17	+58 4 0.02	+18.406	+ 2
848	7 Lacertae	3.85	A o	22 28 29.176	+2.4700	+ 147	+49 55 56.55	+18.484	+ 17
849	[υ Aquarii]	5.29	F 5	22 30 58.644	+3.2833	+ 155	−21 3 25.76	+18.407	−144
850	η Aquarii	4.13	B 8	22 31 51.757	+3.0829	+ 59	− 0 28 6.95	+18.525	− 55
851	[31 Cephei]	5.22	F o	22 34 5.330	+1.4815	+ 383	+73 17 23.60	+18.676	+ 23
852	10 Lacertae	4.91	Oe 5	22 36 12.412	+2.6906	+ 4	+38 41 45.04	+18.713	− 6
853	[30 Cephei]	5.21	A 2	22 36 14.087	+2.1263	+ 1	+63 13 50.20	+18.699	− 22
854	[ε Pisc.austr.]	4.22	B 8	22 36 53.871	+3.3198	+ 12	−27 23 55.68	+18.743	+ 2
855	ζ Pegasi	3.61	B 8	22 38 4.190	+2.9918	+ 53	+10 28 32.95	+18.764	− 13
856	β Gruis	2.24	M b	22 38 36.817	+3.5871	+ 117	−47 14 27.76	+18.768	− 25
857	η Pegasi	3.10	G o	22 39 48.715	+2.8111	+ 12	+29 51 54.00	+18.797	− 33
858	[13 Lacertae]	5.24	K o	22 41 3.288	+2.6736	− 6	+41 27 42.89	+18.872	+ 5
859	λ Pegasi	4.14	K o	22 43 15.212	+2.8887	+ 41	+23 12 26.28	+18.921	− 10
860	ε Gruis	3.69	A 2	22 44 27.329	+3.6298	+ 96	−51 40 30.22	+18.892	− 73
861	[τ Aquarii]	4.21	K 5	22 45 59.604	+3.1771	− 12	−13 57 7.15	+18.975	− 33
862	[μ Pegasi]	3.67	K o	22 46 43.140	+2.8947	+ 109	+24 14 31.43	+18.988	− 41
863	ι Cephei	3.68	K o	22 47 15.226	+2.1316	− 114	+65 50 32.76	+18.920	−123
864	λ Aquarii	3.84	M a	22 49 4.081	+3.1302	+ 5	− 7 56 30.94	+19.130	+ 38
865	ρ Indi	6.14	G o	22 49 57.203	+4.1943	− 101	−70 26 15.37	+19.177	+ 62
866	δ Aquarii	3.51	A 2	22 51 2.595	+3.1845	− 33	−16 10 58.35	+19.124	− 19
867	α Pisc. austr.	1.29	A 3	22 53 53.792	+3.3169	+ 247	−29 58 58.88	+19.057	−159
868	[ζ Gruis]	4.18	G 5	22 56 52.487	+3.5493	− 80	−53 7 9.44	+19.273	− 16
869	ο Androm.	3.63	B 5 + A 2 p	22 58 47.289	+2.7583	+ 25	+41 57 36.12	+19.321	− 13
870	β Pegasi	2.61	M a	23 0 28.494	+2.9072	+ 145	+27 42 48.75	+19.509	+ 138
871	α Pegasi	2.57	A o	23 1 22.310	+2.9875	+ 41	+14 50 20.34	+19.351	− 41
872	ϑ Gruis	4.35	F 5	23 3 3.260	+3.3839	− 52	−43 53 17.87	+19.391	− 38
874	π Cephei	4.56	G 5	23 5 43.758	+1.9043	+ 29	+75 1 10.99	+19.459	− 25
873	c² Aquarii	3.80	K o	23 5 49.393	+3.1997	+ 32	−21 32 30.70	+19.523	+ 36
875	Br 3077	5.65	K 2	23 10 0.041	+2.8844	+2533	+56 47 33.38	+19.865	+296
876	[Tucanae 25 G.]	5.69	G o	23 12 53.129	+3.6172	+ 231	−62 22 21.10	+19.569	− 53
877	γ Tucanae	4.10	F 2	23 13 28.245	+3.5085	− 59	−58 36 31.89	+19.714	+ 82
878	[γ Piscium]	3.85	K o	23 13 38.375	+3.1096	+ 503	+ 2 54 37.34	+19.653	+ 18
879	γ Sculptoris	4.51	K o	23 15 9.367	+3.2420	+ 10	−32 54 10.05	+19.594	− 68

Nr. 847. Spektrum wechselt von F 5 bis G o.

Mittlere Sternörter 1932.0

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".01
		M		h m s	s		° ' "	"	
880	τ Pegasi	4.65	A 5	23 17 16.106	+2.9680	+ 21	+23 22 3.92	+19.683	— 13
882	4 Cassiopeiae	5.20	K 5	23 21 48.496	+2.6594	+ 17	+61 54 33.28	+19.756	— 10
881	[υ Pegasi]	4.57	G 0	23 21 58.956	+2.9929	+138	+23 1 46.02	+19.804	+ 35
883	[o Gruis]	5.54	F 0	23 22 48.573	+3.3601	— 4	—53 5 54.16	+19.899	+119
884	κ Piscium	4.94	A 2 p	23 23 26.780	+3.0753	+ 56	+ 0 52 59.12	+19.697	— 93
885	70 Pegasi	4.67	K 0	23 25 42.826	+3.0330	+ 38	+12 23 6.40	+19.848	+ 28
886	[β Sculptoris]	4.46	B 9	23 29 19.747	+3.2197	+ 65	—38 11 40.88	+19.879	+ 14
887	[72 Pegasi]	5.21	K 2	23 30 34.534	+2.9743	+ 40	+30 56 59.47	+19.867	— 12
888	[Aquarii 248 G.]	6.51	K 0	23 32 1.637	+3.0948	— 5	— 7 50 27.36	+19.918	+ 23
889	[Phoenicis 11 G.]	4.86	A 2	23 34 11.647	+3.2324	+ 47	—45 52 9.05	+19.880	— 37
890	[λ Androm.]	4.00	K 0	23 34 13.755	+2.9328	+156	+46 5 22.26	+19.495	—423
891	ι Androm.	4.28	B 8	23 34 47.721	+2.9393	+ 27	+42 53 28.94	+19.918	— 5
892	ι Piscium	4.28	F 8	23 36 27.092	+3.0850	+247	+ 5 15 26.88	+19.499	—440
893	γ Cephei	3.42	K 0	23 36 32.462	+2.4509	—184	+77 15 10.11	+20.096	+157
894	ω^2 Aquarii	4.62	A 0	23 39 11.840	+3.1117	+ 65	—14 55 15.71	+19.899	— 63
895	41 H. Cephei	5.02	A 0	23 44 38.764	+2.8600	+ 23	+67 25 44.13	+20.000	+ 1
896	Lac. δ Sculpt.	4.64	A 0	23 45 23.191	+3.1263	+ 71	—28 30 23.32	+19.899	—105
897	[Aquarii 268 G.]	6.08	K 0	23 46 44.203	+3.0956	+ 86	—10 21 13.51	+20.097	+ 86
898	φ Pegasi	5.23	M a	23 49 1.531	+3.0504	— 8	+18 44 32.96	+19.982	— 39
899	[ρ Cassiopeiae]	4.85	F 8 p	23 50 58.562	+2.9908	— 7	+57 7 15.81	+20.032	+ 4
900	[27 Piscium]	5.07	K 0	23 55 11.491	+3.0711	— 37	— 3 55 59.80	+19.971	— 68
901	[π Phoenicis]	5.14	K 0	23 55 24.633	+3.1116	+ 30	—53 7 33.51	+20.086	+ 46
902	ω Piscium	4.03	F 5	23 55 49.079	+3.0801	+100	+ 6 29 12.57	+19.931	—109
903	ε Tucanae	4.71	B 9	23 56 23.649	+3.1265	+ 64	—65 57 20.07	+20.009	— 33
904	[ϑ Octantis]	4.73	K 0	23 58 7.366	+3.1003	—218	—77 26 28.12	+19.873	—171

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Nördliche Polsterne

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
Na	43 H. Cephei	4.52	K 0	0 59 5.93	+ 7.895	+ 76	+85 53 36.18	+19.380	− 2
Nb	α Ursae min.	2.12	F 8	1 37 58.29	+33.131	+154	+88 56 19.18	+18.241	+ 1
Nc	*Grb 750	6.70	F 8	4 14 28.91	+17.884	+ 17	+85 22 26.43	+ 8.938	+ 32
Nd	51 H. Cephei	5.26	M a	7 9 18.71	+28.718	− 51	+87 9 28.92	− 6.005	− 35
Ne	1 H. Dracon.	4.58	K 2	9 27 32.61	+ 8.672	− 6	+81 37 45.56	−15.790	− 20
Nf	30 H. Camel.	5.34	F 2	10 22 57.26	+ 7.439	− 46	+82 54 21.59	−18.243	+ 31
Ng	ε Ursae min.	4.40	G 5	16 52 52.15	− 6.201	+ 7	+82 9 7.24	− 5.781	+ 6
Nh	δ Ursae min.	4.44	A 0	17 54 8.91	−19.485	+ 15	+86 36 47.78	− 0.454	+ 57
Ni	λ Ursae min.	6.55	M b	18 44 16.10	−75.018	− 99	+89 2 11.97	+ 3.854	+ 6
Nk	76 Draconis	5.69	A 0	20 47 37.49	− 4.248	+ 16	+82 16 51.71	+13.415	+ 27

Nr. Nc. Größe aus Harvard 54 entnommen.

Südliche Polsterne

Nr.	Name	Gr.	Spektrum	AR. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.001	Dekl. 1932.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		M		h m s	s		° ' "	"	
Sa	Octantis 4 G.	5.63	K 0	1 41 7.71	− 3.584	+ 18	−85 6 49.13	+18.158	+ 34
Sb	ξ Mensae	5.85	K 0	5 6 32.66	− 6.893	− 4	−82 33 51.04	+ 4.647	+ 14
Sc	ζ Octantis	5.38	F 0	9 6 54.99	− 8.389	− 94	−85 23 36.40	−14.545	+ 49
Sd	ι Octantis	5.38	K 0	12 47 38.08	+ 6.119	+ 42	−84 45 16.46	−19.587	+ 25
Se	Octantis 20 G.	6.52	A 2	14 52 52.80	+27.562	−184	−87 52 33.38	−14.676	− 70
Sf	Octantis 26 G.	6.13	A 0	16 35 9.24	+22.071	+ 5	−86 14 50.23	− 7.254	− 2
Sg	χ Octantis	5.22	K 0	18 15 7.54	+35.632	− 85	−87 39 39.78	+ 1.192	−129
Sh	σ Octantis	5.48	F 0	19 50 26.12	+86.891	+108	−89 11 22.46	+ 9.290	+ 1
Si	β Octantis	4.34	F 0	22 39 13.26	+ 6.224	− 26	−81 44 20.51	+18.814	+ 3
Sk	τ Octantis	5.56	K 0	23 18 36.36	+ 9.506	+ 20	−87 51 22.65	+19.733	+ 15

Scheinbare Sternörter 1932

Tag	1) α Andromedae AR.		Dekl.		2) β Cassiopeiae AR.		Dekl.	
1932	0h 4m		+28° 42′		0h 5m		+58° 46′	
Jan. 0	51.600	130	63.04	84	30.965	305	45.97	64
10	51.470	124	62.20	111	30.660	293	45.33	116
20	51.346	112	61.09	132	30.367	270	44.17	163
30	51.234	95	59.77	147	30.097	234	42.54	203
Feb. 9	51.139	70	58.30	156	29.863	185	40.51	234
19	51.069	39	56.74	157	29.678	126	38.17	256
29	51.030	3	55.17	151	29.552	58	35.61	265
März 10	51.027	38	53.66	137	29.494	18	32.96	264
20	51.065	83	52.29	116	29.512	97	30.32	252
30	51.148	130	51.13	89	29.609	176	27.80	229
Apr. 9	51.278	176	50.24	55	29.785	254	25.51	196
19	51.454	221	49.69	18	30.039	326	23.55	156
29	51.675	261	49.51	20	30.365	389	21.99	110
Mai 9	51.936	296	49.71	59	30.754	442	20.89	59
19	52.232	324	50.30	98	31.196	483	20.30	7
29	52.556	343	51.28	134	31.679	509	20.23	46
Juni 8	52.899	353	52.62	167	32.188	522	20.69	98
18	53.252	355	54.29	195	32.710	522	21.67	147
28	53.607	348	56.24	219	33.232	508	23.14	193
Juli 8	53.955	331	58.43	238	33.740	482	25.07	233
18	54.286	308	60.81	250	34.222	445	27.40	269
28	54.594	279	63.31	256	34.667	399	30.09	298
Aug. 7	54.873	243	65.87	258	35.066	346	33.07	321
17	55.116	204	68.45	253	35.412	287	36.28	336
27	55.320	164	70.98	245	35.699	224	39.64	345
Sept. 6	55.484	123	73.43	232	35.923	160	43.09	348
16	55.607	82	75.75	215	36.083	97	46.57	343
25	55.689	44	77.90	194	36.180	34	50.00	331
Okt. 5	55.733	9	79.84	171	36.214	25	53.31	313
15	55.742	23	81.55	146	36.189	81	56.44	289
25	55.719	51	83.01	119	36.108	133	59.33	257
Nov. 4	55.668	74	84.20	89	35.975	179	61.90	220
14	55.594	94	85.09	58	35.796	219	64.10	177
24	55.500	110	85.67	27	35.577	253	65.87	129
Dez. 4	55.390	121	85.94	6	35.324	279	67.16	77
14	55.269	128	85.88	37	35.045	297	67.93	24
24	55.141	130	85.51	67	34.748	303	68.17	31
34	55.011		84.84		34.445		67.86	
Mittl. Ort	52.094		54.17		32.216		29.01	
sec δ, tg δ	1.140		+0.548		1.929		+1.650	
a, *a′*	+3.1		+20.0		+3.1		+20.0	
b, *b′*	+0.04		− 0.02		+0.11		− 0.02	

Tag	3) ε Phoenicis AR.		Dekl.		7) γ Pegasi AR.		Dekl.	
1932	0h 5m		−46° 6′		0h 9m		+14° 48′	
Jan. 0	58.182	188	97.31	38	43.598	106	24.15	76
10	57.994	173	96.93	85	43.492	102	23.39	88
20	57.821	152	96.08	128	43.390	92	22.51	95
30	57.669	125	94.80	169	43.298	78	21.56	98
Feb. 9	57.544	93	93.11	206	43.220	58	20.58	97
19	57.451	57	91.05	239	43.162	31	19.61	89
29	57.394	15	88.66	266	43.131	0	18.72	77
März 10	57.379	32	86.00	288	43.131	36	17.95	58
20	57.411	80	83.12	305	43.167	76	17.37	36
30	57.491	132	80.07	315	43.243	118	17.01	8
Apr. 9	57.623	183	76.92	319	43.361	161	16.93	21
19	57.806	234	73.73	317	43.522	200	17.14	53
29	58.040	281	70.56	308	43.722	238	17.67	84
Mai 9	58.321	324	67.48	292	43.960	272	18.51	115
19	58.645	360	64.56	271	44.232	298	19.66	144
29	59.005	388	61.85	242	44.530	318	21.10	169
Juni 8	59.393	407	59.43	207	44.848	329	22.79	189
18	59.800	415	57.36	169	45.177	333	24.68	206
28	60.215	413	55.67	126	45.510	327	26.74	217
Juli 8	60.628	401	54.41	79	45.837	314	28.91	222
18	61.029	377	53.62	31	46.151	293	31.13	222
28	61.406	344	53.31	16	46.444	267	33.35	218
Aug. 7	61.750	302	53.47	63	46.711	235	35.53	208
17	62.052	254	54.10	108	46.946	200	37.61	195
27	62.306	201	55.18	145	47.146	161	39.56	177
Sept. 6	62.507	144	56.63	179	47.307	123	41.33	159
16	62.651	86	58.42	204	47.430	86	42.92	137
25	62.737	30	60.46	220	47.516	50	44.29	115
Okt. 5	62.767	23	62.66	227	47.566	17	45.44	92
15	62.744	70	64.93	225	47.583	12	46.36	69
25	62.674	112	67.18	212	47.571	37	47.05	47
Nov. 4	62.562	146	69.30	191	47.534	59	47.52	25
14	62.416	171	71.21	160	47.475	76	47.77	4
24	62.245	189	72.81	124	47.399	89	47.81	16
Dez. 4	62.056	199	74.05	83	47.310	99	47.65	35
14	61.857	201	74.88	38	47.211	105	47.30	53
24	61.656	197	75.26	9	47.106	108	46.77	68
34	61.459		75.17		46.998		46.09	
Mittl. Ort	57.810		82.10		43.883		19.76	
sec δ, tg δ	1.443		−1.040		1.034		+0.264	
a, *a′*	+3.0		+20.0		+3.1		+20.0	
b, *b′*	−0.07		− 0.03		+0.02		− 0.04	

Tag	9) ι Ceti AR.		9) ι Ceti Dekl.		10) ζ Tucanae AR.		10) ζ Tucanae Dekl.		11) β Hydri AR.		11) β Hydri Dekl.		12) α Phoenicis AR.		12) α Phoenicis Dekl.	
1932	$0^h\ 15^m$		$-9°\ 11'$		$0^h\ 16^m$		$-65°\ 15'$		$0^h\ 22^m$		$-77°\ 37'$		$0^h\ 22^m$		$-42°\ 40'$	
Jan. 0	57.793	102	66.85	49	33.32	40	106.64	83	14.75	89	93.20	106	55.986	179	45.36	13
10	57.691	97	67.34	35	32.92	36	105.81	138	13.86	83	92.14	164	55.807	169	45.23	57
20	57.594	88	67.69	18	32.56	33	104.43	190	13.03	75	90.50	218	55.638	153	44.66	101
30	57.506	74	67.87	0	32.23	28	102.53	238	12.28	65	88.32	267	55.485	132	43.65	143
Feb. 9	57.432	56	67.87	19	31.95	22	100.15	279	11.63	54	85.65	307	55.353	105	42.22	180
19	57.376	31	67.68	41	31.73	16	97.36	313	11.09	40	82.58	341	55.248	72	40.42	214
29	57.345	3	67.27	64	31.57	9	94.23	340	10.69	27	79.17	366	55.176	35	38.28	245
März 10	57.342	30	66.63	87	31.48	1	90.83	359	10.42	11	75.51	382	55.141	8	35.83	269
20	57.372	68	65.76	111	31.47	6	87.24	371	10.31	4	71.69	390	55.149	55	33.14	289
30	57.440	107	64.65	134	31.53	15	83.53	376	10.35	19	67.79	391	55.204	103	30.25	303
Apr. 9	57.547	147	63.31	156	31.68	23	79.77	371	10.54	35	63.88	382	55.307	154	27.22	312
19	57.694	187	61.75	177	31.91	31	76.06	360	10.89	49	60.06	365	55.461	204	24.10	313
29	57.881	225	59.98	194	32.22	38	72.46	341	11.38	64	56.41	342	55.665	251	20.97	309
Mai 9	58.106	258	58.04	207	32.60	45	69.05	315	12.02	76	52.99	311	55.916	294	17.88	298
19	58.364	286	55.97	216	33.05	51	65.90	282	12.78	88	49.88	272	56.210	332	14.90	280
29	58.650	307	53.81	220	33.56	56	63.08	242	13.66	97	47.16	229	56.542	362	12.10	255
Juni 8	58.957	320	51.61	218	34.12	59	60.66	197	14.63	103	44.87	179	56.904	383	9.55	225
18	59.277	327	49.43	212	34.71	62	58.69	148	15.66	108	43.08	126	57.287	394	7.30	189
28	59.604	324	47.31	199	35.33	61	57.21	95	16.74	110	41.82	70	57.681	396	5.41	149
Juli 8	59.928	314	45.32	182	35.94	60	56.26	40	17.84	108	41.12	13	58.077	387	3.92	104
18	60.242	295	43.50	160	36.54	58	55.86	16	18.92	103	40.99	45	58.464	368	2.88	57
28	60.537	271	41.90	135	37.12	53	56.02	70	19.95	96	41.44	101	58.832	340	2.31	10
Aug. 7	60.808	240	40.55	108	37.65	46	56.72	121	20.91	85	42.45	153	59.172	304	2.21	37
17	61.048	205	39.47	78	38.11	40	57.93	169	21.76	72	43.98	200	59.476	260	2.58	83
27	61.253	168	38.69	49	38.51	31	59.62	210	22.48	57	45.98	240	59.736	212	3.41	123
Sept. 6	61.421	129	38.20	19	38.82	23	61.72	243	23.05	40	48.38	271	59.948	160	4.64	159
16	61.550	91	38.01	7	39.05	13	64.15	265	23.45	21	51.09	292	60.108	106	6.23	188
25*)	[25]61.641	54	38.08	30	[25]39.18	3	66.80	278	23.66	3	54.01	301	60.214	54	8.11	208
Okt. 5	61.695	20	38.38	51	39.21	6	69.58	280	[27]23.69	16	57.02	299	[27]60.268	4	10.19	220
15	61.715	10	38.89	66	39.15	15	72.38	269	23.53	34	60.01	284	60.272	41	12.39	222
25	61.705	36	39.55	77	39.00	22	75.07	248	23.19	50	62.85	257	60.231	82	14.61	215
Nov. 4	61.669	58	40.32	84	38.78	29	77.55	215	22.69	64	65.42	220	60.149	116	16.76	198
14	61.611	75	41.16	86	38.49	34	79.70	174	22.05	76	67.62	173	60.033	143	18.74	173
24	61.536	88	42.02	83	38.15	38	81.44	125	21.29	85	69.35	119	59.890	164	20.47	140
Dez. 4	61.448	97	42.85	78	37.77	40	82.69	71	20.44	90	70.54	59	59.726	177	21.87	103
14	61.351	103	43.63	70	37.37	42	83.40	13	19.54	92	71.13	3	59.549	183	22.90	61
24	61.248	104	44.33	58	36.95	40	83.53	46	18.62	91	71.10	65	59.366	184	23.51	16
34	61.144		44.91		36.55		83.07		17.71		70.45		59.182		23.67	
Mittl. Ort	57.793		63.00		32.30		88.29		12.45		73.90		55.534		31.51	
sec δ, tg δ	1.013		−0.162		2.391		−2.172		4.671		−4.562		1.360		−0.922	
a, a'	+3.1		+20.0		+2.9		+20.0		+2.5		+20.0		+2.9		+19.9	
b, b'	−0.01		− 0.07		−0.14		− 0.07		−0.30		− 0.10		−0.06		− 0.10	

*) Bei Stern 11) und 12) lies Sept. 26

Scheinbare Sternörter 1932

Tag	13) 12 Ceti AR.		13) 12 Ceti Dekl.		17) ζ Cassiopeiae AR.		17) ζ Cassiopeiae Dekl.		18) π Andromedae AR.		18) π Andromedae Dekl.		20) δ Andromedae AR.		20) δ Andromedae Dekl.	
1932	$0^h 26^m$		$-4° 19'$		$0^h 33^m$		$+53° 31'$		$0^h 33^m$		$+33° 20'$		$0^h 35^m$		$+30° 29'$	
	s		"		s		"		s		"		s		"	
Jan. 0	34.124	102	60.22	58	9.532	251	39.43	38	14.240	144	54.37	61	40.869	137	31.74	62
10	34.022	100	60.80	47	9.281	251	39.05	87	14.096	146	53.76	92	40.732	137	31.12	89
20	33.922	92	61.27	35	9.030	239	38.18	132	13.950	139	52.84	119	40.595	132	30.23	113
30	33.830	81	61.62	21	8.791	217	36.86	171	13.811	124	51.65	141	40.463	119	29.10	133
Feb. 9	33.749	63	61.83	5	8.574	182	35.15	203	13.687	103	50.24	155	40.344	99	27.77	146
19	33.686	40	61.88	14	8.392	137	33.12	226	13.584	74	48.69	164	40.245	71	26.31	152
29	33.646	13	61.74	34	8.255	83	30.86	239	13.510	38	47.05	165	40.174	37	24.79	151
März 10	33.633	20	61.40	57	8.172	20	28.47	241	13.472	4	45.40	156	40.137	4	23.28	142
20	33.653	57	60.83	81	8.152	49	26.06	233	13.476	52	43.84	141	40.141	50	21.86	126
30	33.710	97	60.02	106	8.201	119	23.73	215	13.528	102	42.43	118	40.191	98	20.60	103
Apr. 9	33.807	137	58.96	129	8.320	190	21.58	187	13.630	152	41.25	89	40.289	147	19.57	74
19	33.944	178	57.67	152	8.510	257	19.71	152	13.782	202	40.36	55	40.436	195	18.83	41
29	34.122	216	56.15	172	8.767	319	18.19	111	13.984	247	39.81	17	40.631	240	18.42	5
Mai 9	34.338	250	54.43	189	9.086	372	17.08	65	14.231	288	39.64	22	40.871	280	18.37	33
19	34.588	280	52.54	203	9.458	415	16.43	17	14.519	321	39.86	61	41.151	312	18.70	71
29	34.868	302	50.51	211	9.873	447	16.26	32	14.840	346	40.47	100	41.463	338	19.41	108
Juni 8	35.170	317	48.40	214	10.320	467	16.58	80	15.186	363	41.47	136	41.801	354	20.49	141
18	35.487	324	46.26	213	10.787	474	17.38	127	15.549	369	42.83	169	42.155	362	21.90	172
28	35.811	323	44.13	205	11.261	470	18.65	170	15.918	366	44.52	197	42.517	359	23.62	198
Juli 8	36.134	314	42.08	193	11.731	454	20.35	210	16.284	355	46.49	220	42.876	349	25.60	218
18	36.448	297	40.15	175	12.185	428	22.45	243	16.639	336	48.69	239	43.225	330	27.78	234
28	36.745	274	38.40	155	12.613	393	24.88	272	16.975	309	51.08	251	43.555	305	30.12	245
Aug. 7	37.019	245	36.85	130	13.006	351	27.60	294	17.284	277	53.59	258	43.860	273	32.57	249
17	37.264	212	35.55	104	13.357	302	30.54	311	17.561	240	56.17	260	44.133	238	35.06	249
27	37.476	176	34.51	76	13.659	251	33.65	320	17.801	201	58.77	256	44.371	200	37.55	244
Sept. 6	37.652	139	33.75	48	13.910	197	36.85	324	18.002	160	61.33	248	44.571	161	39.99	234
16	37.791	101	33.27	23	14.107	143	40.09	322	18.162	119	63.81	235	44.732	121	42.33	221
26	[28] 37.892	66	33.04	2	[29] 14.250	89	43.31	312	[29] 18.281	80	66.16	219	[30] 44.853	82	44.54	204
Okt. 5	37.958	32	33.06	23	14.339	35	46.43	298	18.361	43	68.35	200	44.935	45	46.58	183
15	37.990	2	33.29	41	14.374	14	49.41	277	18.404	7	70.35	176	44.980	12	48.41	161
25	37.992	25	33.70	55	14.360	61	52.18	250	18.411	24	72.11	151	44.992	19	50.02	136
Nov. 4	37.967	47	34.25	65	14.299	105	54.68	218	18.387	53	73.62	123	44.973	46	51.38	108
14	37.920	64	34.90	71	14.194	144	56.86	180	18.334	78	74.85	92	44.927	71	52.46	80
24	37.856	80	35.61	74	14.050	178	58.66	138	18.256	100	75.77	60	44.856	92	53.26	50
Dez. 4	37.776	91	36.35	73	13.872	209	60.04	91	18.156	118	76.37	26	44.764	110	53.76	18
14	37.685	98	37.08	69	13.663	230	60.95	43	18.038	132	76.63	8	44.654	124	53.94	13
24	37.587	102	37.77	63	13.433	245	61.38	8	17.906	141	76.55	41	44.530	132	53.81	43
34	37.485		38.40		13.188		61.30		17.765		76.14		44.398		53.38	
Mittl. Ort	34.109		58.47		10.288		22.45		14.602		42.90		41.174		21.08	
sec δ, tg δ	1.003		−0.076		1.682		+1.353		1.197		+0.658		1.160		+0.589	
a, a'	+3.1		+19.9		+3.3		+19.8		+3.2		+19.8		+3.2		+19.8	
b, b'	−0.01		− 0.12		+0.09		− 0.14		+0.04		− 0.14		+0.04		− 0.16	

Tag	21) α Cassiopeiae AR.		21) α Cassiopeiae Dekl.		22) β Ceti AR.		22) β Ceti Dekl.		25) o Cassiopeiae AR.		25) o Cassiopeiae Dekl.		24) 21 Cassiopeiae AR.		24) 21 Cassiopeiae Dekl.	
1932	0h 36m		+56° 9′		0h 40m		−18° 21′		0h 40m		+47° 54′		0h 41m		+74° 36′	
Jan. 0	37.322	276	70.55	30	10.851	115	40.68	45	55.042	209	60.71	37	5.43	71	80.98	12
10	37.046	276	70.25	81	10.736	114	41.13	19	54.833	211	60.34	83	4.72	71	81.10	50
20	36.770	265	69.44	128	10.622	108	41.32	6	54.622	204	59.51	123	4.01	68	80.60	108
30	36.505	241	68.16	169	10.514	97	41.26	33	54.418	186	58.28	158	3.33	62	79.52	163
Feb. 9	36.264	204	66.47	204	10.417	80	40.93	60	54.232	159	56.70	186	2.71	53	77.89	210
19	36.060	157	64.43	229	10.337	58	40.33	87	54.073	121	54.84	207	2.18	43	75.79	247
29	35.903	98	62.14	244	10.279	30	39.46	114	53.952	75	52.77	218	1.75	30	73.32	274
März 10	35.805	31	59.70	249	10.249	3	38.32	139	53.877	20	50.59	219	1.45	15	70.58	290
20	35.774	42	57.21	243	10.252	40	36.93	164	53.857	39	48.40	210	1.30	0	67.68	292
30	35.816	118	54.78	226	10.292	81	35.29	186	53.896	102	46.30	191	1.30	16	64.76	283
Apr. 9	35.934	193	52.52	199	10.373	123	33.43	206	53.998	166	44.39	165	1.46	31	61.93	263
19	36.127	265	50.53	166	10.496	165	31.37	223	54.164	227	42.74	132	1.77	46	59.30	233
29	36.392	331	48.87	125	10.661	206	29.14	235	54.391	283	41.42	92	2.23	60	56.97	193
Mai 9	36.723	388	47.62	79	10.867	244	26.79	242	54.674	333	40.50	49	2.83	70	55.04	149
19	37.111	434	46.83	30	11.111	276	24.37	245	55.007	374	40.01	3	3.53	80	53.55	97
29	37.545	469	46.53	19	11.387	301	21.92	242	55.381	404	39.98	43	4.33	86	52.58	43
Juni 8	38.014	491	46.72	69	11.688	321	19.50	232	55.785	425	40.41	89	5.19	91	52.15	11
18	38.505	499	47.41	117	12.009	331	17.18	218	56.210	434	41.30	131	6.10	92	52.26	66
28	39.004	495	48.58	162	12.340	333	15.00	197	56.644	431	42.61	171	7.02	92	52.92	119
Juli 8	39.499	480	50.20	203	12.673	327	13.03	172	57.075	419	44.32	207	7.94	89	54.11	170
18	39.979	453	52.23	239	13.000	313	11.31	143	57.494	398	46.39	237	8.83	85	55.81	216
28	40.432	417	54.62	269	13.313	291	9.88	110	57.892	368	48.76	262	9.68	78	57.97	257
Aug. 7	40.849	374	57.31	294	13.604	264	8.78	75	58.260	330	51.38	281	10.46	69	60.54	293
17	41.223	323	60.25	312	13.868	231	8.03	39	58.590	288	54.19	294	11.15	60	63.47	323
27	41.546	269	63.37	325	14.099	194	7.64	4	58.878	243	57.13	302	11.75	50	66.70	347
Sept. 6	41.815	213	66.62	330	14.293	156	7.60	29	59.121	195	60.15	303	12.25	39	70.17	363
16	42.028	155	69.92	329	14.449	116	7.89	59	59.316	146	63.18	298	12.64	27	73.80	372
26	[30] 42.183	97	73.21	322	[1] 14.565	78	8.48	85	[1] 59.462	98	66.16	289	[1] 12.91	16	77.52	373
Okt. 5	42.280	41	76.43	309	14.643	41	9.33	106	59.560	51	69.05	273	13.07	3	81.25	368
15	42.321	13	79.52	289	14.684	8	10.39	120	59.611	7	71.78	253	13.10	8	84.93	353
25	42.308	64	82.41	263	14.692	22	11.59	128	59.618	34	74.31	227	13.02	20	88.46	332
Nov. 4	42.244	111	85.04	231	14.670	48	12.87	130	59.584	73	76.58	197	12.82	31	91.78	301
14	42.133	155	87.35	193	14.622	69	14.17	125	59.511	109	78.55	162	12.51	42	94.79	264
24	41.978	193	89.28	151	14.553	86	15.42	116	59.402	139	80.17	122	12.09	51	97.43	219
Dez. 4	41.785	226	90.79	103	14.467	100	16.58	100	59.263	166	81.39	80	11.58	59	99.62	167
14	41.559	251	91.82	54	14.367	110	17.58	82	59.097	187	82.19	36	10.99	65	101.29	110
24	41.308	268	92.36	1	14.257	115	18.40	60	58.910	202	82.55	11	10.34	68	102.39	50
34	41.040		92.37		14.142		19.00		58.708		82.44		9.66		102.89	
Mittl. Ort	38.118		52.86		10.611		34.60		55.586		44.82		7.29		60.02	
sec δ, tg δ	1.796		+1.492		1.054		−0.332		1.492		+1.107		3.770		+3.635	
a, *a*′	+3.4		+19.8		+3.0		+19.7		+3.3		+19.7		+3.9		+19.7	
b, *b*′	+0.10		−0.16		−0.02		−0.17		+0.07		−0.18		+0.24		−0.18	

Scheinbare Sternörter 1932

Tag	27) ζ Andromedae AR.		27) ζ Andromedae Dekl.		32) γ Cassiopeiae AR.		32) γ Cassiopeiae Dekl.		33) μ Andromedae AR.		33) μ Andromedae Dekl.		35) α Sculptoris AR.		35) α Sculptoris Dekl.	
1932	0h 43m		+23° 53′		0h 52m		+60° 20′		0h 52m		+38° 7′		0h 55m		−29° 42′	
Jan. 0	43.606	123	59.92	61	34.55	32	75.07	3	58.018	160	64.84	40	20.255	141	98.48	38
10	43.483	125	59.31	81	34.23	32	75.04	57	57.858	165	64.44	75	20.114	142	98.86	3
20	43.358	121	58.50	99	33.91	32	74.47	107	57.693	161	63.69	108	19.972	136	98.89	34
30	43.237	111	57.51	112	33.59	30	73.40	154	57.532	151	62.61	135	19.836	126	98.55	70
Feb. 9	43.126	94	56.39	120	33.29	26	71.86	193	57.381	131	61.26	156	19.710	109	97.85	105
19	43.032	70	55.19	122	33.03	21	69.93	225	57.250	102	59.70	170	19.601	86	96.80	139
29	42.962	38	53.97	117	32.82	15	67.68	245	57.148	66	58.00	177	19.515	57	95.41	170
März 10	42.924	2	52.80	106	32.67	7	65.23	256	57.082	22	56.23	174	19.458	23	93.71	198
20	42.922	41	51.74	89	32.60	1	62.67	255	57.060	28	54.49	164	19.435	17	91.73	224
30	42.963	86	50.85	67	32.61	10	60.12	243	57.088	82	52.85	145	19.452	61	89.49	245
Apr. 9	43.049	132	50.18	39	32.71	18	57.69	222	57.170	136	51.40	120	19.513	105	87.04	262
19	43.181	179	49.79	7	32.89	26	55.47	191	57.306	190	50.20	89	19.618	151	84.42	275
29	43.360	223	49.72	25	33.15	34	53.56	154	57.496	241	49.31	52	19.769	196	81.67	282
Mai 9	43.583	261	49.97	60	33.49	41	52.02	110	57.737	286	48.79	13	19.965	238	78.85	283
19	43.844	294	50.57	93	33.90	46	50.92	62	58.023	325	48.66	27	20.203	275	76.02	277
29	44.138	319	51.50	124	34.36	51	50.30	12	58.348	354	48.93	67	20.478	305	73.25	266
Juni 8	44.457	337	52.74	153	34.87	53	50.18	38	58.702	374	49.60	106	20.783	329	70.59	248
18	44.794	346	54.27	178	35.40	55	50.56	87	59.076	386	50.66	142	21.112	344	68.11	223
28	45.140	345	56.05	198	35.95	55	51.43	135	59.462	387	52.08	175	21.456	350	65.88	194
Juli 8	45.485	337	58.03	214	36.50	54	52.78	179	59.849	378	53.83	203	21.806	348	63.94	160
18	45.822	321	60.17	224	37.04	51	54.57	218	60.227	361	55.86	226	22.154	336	62.34	121
28	46.143	298	62.41	228	37.55	48	56.75	253	60.588	337	58.12	244	22.490	316	61.13	79
Aug. 7	46.441	269	64.69	228	38.03	44	59.28	282	60.925	307	60.56	256	22.806	289	60.34	37
17	46.710	236	66.97	223	38.47	38	62.10	306	61.232	271	63.12	263	23.095	256	59.97	6
27	46.946	201	69.20	213	38.85	32	65.16	322	61.503	233	65.75	266	23.351	219	60.03	47
Sept. 6	47.147	163	71.33	201	39.17	27	68.38	333	61.736	191	68.41	262	23.570	177	60.50	86
16	47.310	126	73.34	185	39.44	20	71.71	337	61.927	150	71.03	253	23.747	136	61.36	120
26	47.436	89	75.19	166	39.64	14	75.08	334	62.077	109	73.56	242	23.883	93	62.56	147
Okt. 5	[2]47.525	54	76.85	145	[4]39.78	7	78.42	325	[4]62.186	69	75.98	225	[5]23.976	52	64.03	167
15	47.579	23	78.30	124	39.85	1	81.67	309	62.255	32	78.23	204	24.028	13	65.70	180
25	47.602	7	79.54	100	39.86	5	84.76	286	62.287	4	80.27	181	24.041	22	67.50	185
Nov. 4	47.595	33	80.54	77	39.81	10	87.62	257	62.283	37	82.08	154	24.019	53	69.35	181
14	47.562	57	81.31	52	39.71	16	90.19	222	62.246	67	83.62	123	23.966	79	71.16	168
24	47.505	78	81.83	27	39.55	20	92.41	181	62.179	94	84.85	91	23.887	101	72.84	150
Dez. 4	47.427	95	82.10	1	39.35	25	94.22	134	62.085	118	85.76	56	23.786	119	74.34	125
14	47.332	108	82.11	23	39.10	29	95.56	83	61.967	138	86.32	18	23.667	132	75.59	96
24	47.224	118	81.88	47	38.81	31	96.39	29	61.829	152	86.50	18	23.535	140	76.55	62
34	47.106		81.41		38.50		96.68		61.677		86.32		23.395		77.17	
Mittl. Ort	43.776		51.13		35.29		55.98		58.294		51.24		19.777		89.40	
sec δ, tg δ	1.094		+0.443		2.021		+1.757		1.271		+0.785		1.152		−0.571	
a, a′	+3.2		+19.7		+3.6		+19.5		+3.3		+19.5		+2.9		+19.5	
b, b′	+0.03		− 0.19		+0.11		− 0.23		+0.05		− 0.23		−0.04		− 0.24	

Tag	36) ε Piscium				38) β Phoenicis				42) β Andromedae				45) υ Piscium			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1932	$0^h\ 59^m$		$+7°\ 31'$		$1^h\ 3^m$		$-47°\ 4'$		$1^h\ 5^m$		$+35°\ 15'$		$1^h\ 15^m$		$+26°\ 54'$	
	s		"		s		"		s		"		s		"	
Jan. 0	24.792	105	31.70	61	3.872	218	71.44	19	54.940	147	50.96	34	43.410	125	36.44	39
10	24.687	109	31.09	64	3.654	216	71.63	31	54.793	155	50.62	66	43.285	134	36.05	62
20	24.578	109	30.45	64	3.438	208	71.32	80	54.638	156	49.96	95	43.151	137	35.43	83
30	24.469	103	29.81	61	3.230	193	70.52	127	54.482	148	49.01	121	43.014	132	34.60	100
Feb. 9	24.366	89	29.20	54	3.037	171	69.25	171	54.334	132	47.80	140	42.882	120	33.60	113
19	24.277	70	28.66	44	2.866	141	67.54	212	54.202	107	46.40	154	42.762	100	32.47	121
29	24.207	44	28.22	30	2.725	104	65.42	246	54.095	74	44.86	161	42.662	71	31.26	121
März 10	24.163	13	27.92	13	2.621	61	62.96	277	54.021	33	43.25	158	42.591	36	30.05	115
20	24.150	25	27.79	7	2.560	13	60.19	302	53.988	14	41.67	149	42.555	7	28.90	104
30	24.175	66	27.86	31	2.547	40	57.17	320	54.002	66	40.18	132	42.562	53	27.86	86
Apr. 9	24.241	108	28.17	56	2.587	95	53.97	332	54.068	119	38.86	107	42.615	102	27.00	62
19	24.349	152	28.73	82	2.682	151	50.65	338	54.187	172	37.79	78	42.717	151	26.38	35
29	24.501	194	29.55	108	2.833	206	47.27	335	54.359	222	37.01	45	42.868	199	26.03	4
Mai 9	24.695	232	30.63	132	3.039	258	43.92	327	54.581	268	36.56	9	43.067	242	25.99	29
19	24.927	265	31.95	155	3.297	305	40.65	311	54.849	307	36.47	30	43.309	280	26.28	61
29	25.192	291	33.50	174	3.602	344	37.54	287	55.156	338	36.77	67	43.589	311	26.89	94
Juni 8	25.483	311	35.24	188	3.946	376	34.67	257	55.494	360	37.44	104	43.900	333	27.83	124
18	25.794	323	37.12	198	4.322	398	32.10	221	55.854	374	38.48	137	44.233	348	29.07	151
28	26.117	326	39.10	204	4.720	409	29.89	179	56.228	378	39.85	167	44.581	354	30.58	174
Juli 8	26.443	322	41.14	204	5.129	410	28.10	132	56.606	372	41.52	194	44.935	351	32.32	193
18	26.765	309	43.18	198	5.539	400	26.78	83	56.978	358	43.46	215	45.286	339	34.25	206
28	27.074	290	45.16	188	5.939	380	25.95	31	57.336	337	45.61	231	45.625	322	36.31	216
Aug. 7	27.364	266	47.04	174	6.319	350	25.64	22	57.673	310	47.92	241	45.947	297	38.47	220
17	27.630	237	48.78	156	6.669	312	25.86	72	57.983	277	50.33	248	46.244	268	40.67	219
27	27.867	205	50.34	136	6.981	267	26.58	119	58.260	241	52.81	249	46.512	235	42.86	214
Sept. 6	28.072	170	51.70	113	7.248	215	27.77	162	58.501	202	55.30	244	46.747	201	45.00	205
16	28.242	135	52.83	91	7.463	162	29.39	197	58.703	163	57.74	236	46.948	165	47.05	192
26	28.377	101	53.74	68	7.625	106	31.36	225	58.866	124	60.10	224	47.113	128	48.97	178
Okt. 6	28.478	68	54.42	46	7.731	51	33.61	244	58.990	85	62.34	208	47.241	93	50.75	160
15	[6] 28.546	38	54.88	25	[7] 7.782	2	36.05	251	[8] 59.075	49	64.42	189	[10] 47.334	60	52.35	141
25	28.584	10	55.13	7	7.780	50	38.56	249	59.124	15	66.31	167	47.394	28	53.76	121
Nov. 4	28.594	16	55.20	10	7.730	94	41.05	236	59.139	18	67.98	142	47.422	1	54.97	98
14	28.578	39	55.10	24	7.636	132	43.41	213	59.121	48	69.40	114	47.421	30	55.95	74
24	28.539	58	54.86	36	7.504	163	45.54	182	59.073	76	70.54	85	47.391	56	56.69	51
Dez. 4	28.481	75	54.50	46	7.341	188	47.36	143	58.997	101	71.39	53	47.335	79	57.20	26
14	28.406	90	54.04	54	7.153	206	48.79	99	58.896	122	71.92	19	47.256	99	57.46	0
24	28.316	100	53.50	60	6.947	216	49.78	51	58.774	138	72.11	14	47.157	116	57.46	25
34	28.216		52.90		6.731		50.29		58.636		71.97		47.041		57.21	
Mittl. Ort	24.697		28.04		3.012		58.13		55.080		37.82		43.392		25.64	
sec δ, tg δ	1.009		+0.132		1.469		−1.076		1.225		+0.707		1.121		+0.508	
a, a'	+3.1		+19.4		+2.7		+19.3		+3.3		+19.2		+3.3		+19.0	
b, b'	+0.01		−0.26		−0.07		−0.27		+0.05		−0.28		+0.03		−0.32	

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Tag	47) ϑ Ceti AR.		47) ϑ Ceti Dekl.		48) δ Cassiopeiae AR.		48) δ Cassiopeiae Dekl.	
1932	1h 20m		−8° 31′		1h 21m		+59° 52′	
Jan. 0	37.797	107	62.78	67	20.650	302	76.91	31
10	37.690	115	63.45	51	20.348	319	77.22	22
20	37.575	117	63.96	33	20.029	322	77.00	74
30	37.458	113	64.29	14	19.707	310	76.26	122
Feb. 9	37.345	104	64.43	8	19.397	284	75.04	163
19	37.241	87	64.35	30	19.113	241	73.41	200
29	37.154	65	64.05	52	18.872	186	71.41	225
März 10	37.089	35	63.53	76	18.686	116	69.16	242
20	37.054	1	62.77	101	18.570	38	66.74	247
30	37.055	39	61.76	125	18.532	42	64.27	243
Apr. 9	37.094	82	60.51	148	18.574	129	61.84	227
19	37.176	126	59.03	170	18.703	215	59.57	203
29	37.302	168	57.33	188	18.918	294	57.54	171
Mai 9	37.470	208	55.45	204	19.212	367	55.83	133
19	37.678	244	53.41	216	19.579	430	54.50	89
29	37.922	274	51.25	222	20.009	480	53.61	42
Juni 8	38.196	298	49.03	223	20.489	518	53.19	5
18	38.494	313	46.80	220	21.007	541	53.24	53
28	38.807	321	44.60	209	21.548	551	53.77	100
Juli 8	39.128	322	42.51	194	22.099	548	54.77	144
18	39.450	314	40.57	174	22.647	533	56.21	185
28	39.764	299	38.83	149	23.180	506	58.06	221
Aug. 7	40.063	277	37.34	122	23.686	469	60.27	252
17	40.340	251	36.12	91	24.155	426	62.79	279
27	40.591	221	35.21	59	24.581	374	65.58	299
Sept. 6	40.812	188	34.62	28	24.955	320	68.57	313
16	41.000	153	34.34	3	25.275	261	71.70	321
26	41.153	119	34.37	30	25.536	201	74.91	324
Okt. 6	41.272	85	34.67	55	25.737	139	78.15	320
15	[11] 41.357	53	35.22	74	[12] 25.876	78	81.35	309
25	41.410	23	35.96	90	25.954	16	84.44	291
Nov. 4	41.433	5	36.86	99	25.970	43	87.35	268
14	41.428	30	37.85	103	25.927	100	90.03	238
24	41.398	52	38.88	103	25.827	155	92.41	201
Dez. 4	41.346	71	39.91	97	25.672	205	94.42	159
14	41.275	88	40.88	89	25.467	248	96.01	113
24	41.187	102	41.77	77	25.219	283	97.14	61
34	41.085		42.54		24.936		97.75	
Mittl. Ort	37.424		61.57		20.998		57.21	
sec δ, tg δ	1.011		−0.150		1.993		+1.724	
a, *a*′	+3.0		+18.8		+3.9		+18.8	
b, *b*′	−0.01		−0.34		+0.11		−0.35	

Tag	50) η Piscium AR.		50) η Piscium Dekl.		51) 40 Cassiopeiae AR.		51) 40 Cassiopeiae Dekl.	
1932	1h 27m		+14° 59′		1h 32m		+72° 41′	
Jan. 0	50.644	106	51.88	50	61.99	58	61.77	77
10	50.538	117	51.38	60	61.41	61	62.54	17
20	50.421	122	50.78	67	60.80	62	62.71	42
30	50.299	120	50.11	72	60.18	60	62.29	100
Feb. 9	50.179	112	49.39	73	59.58	55	61.29	152
19	50.067	95	48.66	71	59.03	48	59.77	198
29	49.972	72	47.95	64	58.55	39	57.79	234
März 10	49.900	40	47.31	53	58.16	28	55.45	261
20	49.860	3	46.78	36	57.88	15	52.84	276
30	49.857	39	46.42	17	57.73	0	50.08	279
Apr. 9	49.896	84	46.25	7	57.73	13	47.29	272
19	49.980	130	46.32	32	57.86	28	44.57	253
29	50.110	174	46.64	58	58.14	41	42.04	225
Mai 9	50.284	216	47.22	86	58.55	53	39.79	190
19	50.500	253	48.08	112	59.08	64	37.89	147
29	50.753	285	49.20	136	59.72	72	36.42	101
Juni 8	51.038	308	50.56	156	60.44	79	35.41	50
18	51.346	324	52.12	173	61.23	83	34.91	1
28	51.670	332	53.85	186	62.06	85	34.92	53
Juli 8	52.002	331	55.71	194	62.91	86	35.45	103
18	52.333	324	57.65	196	63.77	84	36.48	151
28	52.657	308	59.61	194	64.61	81	37.99	195
Aug. 7	52.965	288	61.55	188	65.42	75	39.94	235
17	53.253	261	63.43	177	66.17	69	42.29	271
27	53.514	232	65.20	163	66.86	62	45.00	301
Sept. 6	53.746	201	66.83	146	67.48	53	48.01	324
16	53.947	167	68.29	127	68.01	44	51.25	342
26	54.114	134	69.56	108	68.45	34	54.67	353
Okt. 6	54.248	101	70.64	87	68.79	23	58.20	356
15	[13] 54.349	70	71.51	68	[14] 69.02	12	61.76	353
25	54.419	40	72.19	49	69.14	2	65.29	341
Nov. 4	54.459	12	72.68	31	69.16	9	68.70	321
14	54.471	14	72.99	13	69.07	19	71.91	294
24	54.457	39	73.12	3	68.88	30	74.85	259
Dez. 4	54.418	61	73.09	18	68.58	40	77.44	216
14	54.357	81	72.91	31	68.18	47	79.60	166
24	54.276	98	72.60	44	67.71	54	81.26	112
34	54.178		72.16		67.17		82.38	
Mittl. Ort	50.443		44.70		62.48		39.83	
sec δ, tg δ	1.035		+0.268		3.362		+3.209	
a, *a*′	+3.2		+18.6		+4.8		+18.4	
b, *b*′	+0.02		−0.37		+0.20		−0.39	

Tag	52) υ Persei AR.		52) υ Persei Dekl.		54) α Eridani AR.		54) α Eridani Dekl.		55) 43 Cassiopeiae AR.		55) 43 Cassiopeiae Dekl.		57) φ Persei AR.		57) φ Persei Dekl.	
1932	$1^h\ 33^m$		$+48°\ 17'$		$1^h\ 35^m$		$-57°\ 34'$		$1^h\ 37^m$		$+67°\ 41'$		$1^h\ 39^m$		$+50°\ 20'$	
Jan. 0	48.381	196	21.03	16	12.587	316	68.52	42	16.30	42	81.34	69	23.160	207	66.75	27
10	48.185	213	21.19	27	12.271	323	68.94	16	15.88	45	82.03	13	22.953	225	67.02	18
20	47.972	220	20.92	68	11.948	320	68.78	72	15.43	47	82.16	44	22.728	235	66.84	61
30	47.752	218	20.24	107	11.628	308	68.06	125	14.96	45	81.72	99	22.493	233	66.23	102
Feb. 9	47.534	202	19.17	142	11.320	284	66.81	176	14.51	42	80.73	148	22.260	218	65.21	138
19	47.332	176	17.75	170	11.036	252	65.05	222	14.09	37	79.25	191	22.042	192	63.83	168
29	47.156	137	16.05	189	10.784	209	62.83	262	13.72	30	77.34	226	21.850	152	62.15	191
März 10	47.019	90	14.16	200	10.575	159	60.21	297	13.42	21	75.08	250	21.698	103	60.24	204
20	46.929	33	12.16	202	10.416	101	57.24	324	13.21	11	72.58	263	21.595	45	58.20	208
30	46.896	30	10.14	195	10.315	36	54.00	346	13.10	0	69.95	266	21.550	21	56.12	204
Apr. 9	46.926	95	8.19	180	10.279	31	50.54	360	13.10	12	67.29	257	21.571	89	54.08	189
19	47.021	161	6.39	156	10.310	102	46.94	366	13.22	22	64.72	239	21.660	157	52.19	167
29	47.182	225	4.83	125	10.412	172	43.28	365	13.44	33	62.33	211	21.817	224	50.52	138
Mai 9	47.407	282	3.58	90	10.584	240	39.63	355	13.77	43	60.22	175	22.041	285	49.14	104
19	47.689	334	2.68	51	10.824	303	36.08	337	14.20	51	58.47	134	22.326	339	48.10	64
29	48.023	377	2.17	10	11.127	359	32.71	313	14.71	58	57.13	89	22.665	384	47.46	24
Juni 8	48.400	408	2.07	32	11.486	406	29.58	280	15.29	64	56.24	39	23.049	419	47.22	19
18	48.808	430	2.39	73	11.892	444	26.78	241	15.93	67	55.85	10	23.468	443	47.41	61
28	49.238	441	3.12	113	12.336	469	24.37	195	16.60	70	55.95	60	23.911	455	48.02	102
Juli 8	49.679	441	4.25	150	12.805	482	22.42	145	17.30	70	56.55	108	24.366	456	49.04	140
18	50.120	431	5.75	182	13.287	482	20.97	91	18.00	68	57.63	153	24.822	448	50.44	175
28	50.551	413	7.57	211	13.769	469	20.06	34	18.68	66	59.16	195	25.270	430	52.19	205
Aug. 7	50.964	386	9.68	235	14.238	443	19.72	23	19.34	62	61.11	233	25.700	404	54.24	230
17	51.350	353	12.03	253	14.681	405	19.95	80	19.96	56	63.44	266	26.104	371	56.54	251
27	51.703	315	14.56	266	15.086	357	20.75	133	20.52	51	66.10	294	26.475	333	59.05	266
Sept. 6	52.018	273	17.22	275	15.443	299	22.08	181	21.03	44	69.04	315	26.808	290	61.71	277
16	52.291	230	19.97	278	15.742	236	23.89	222	21.47	37	72.19	330	27.098	246	64.48	282
26	52.521	185	22.75	275	15.978	168	26.11	255	21.84	29	75.49	339	27.344	199	67.30	281
Okt. 6	52.706	139	25.50	268	16.146	98	28.66	278	22.13	21	78.88	341	27.543	152	70.11	276
15*)	[15] 52.845	93	28.18	256	[15] 16.244	28	31.44	289	[16] 22.34	13	82.29	336	[16] 27.695	105	72.87	266
25	52.938	49	30.74	238	16.272	41	34.33	289	22.47	4	85.65	324	27.800	57	75.53	249
Nov. 4	52.987	5	33.12	217	16.231	104	37.22	277	22.51	4	88.89	305	27.857	11	78.02	228
14	52.992	38	35.29	190	16.127	161	39.99	255	22.47	12	91.94	278	27.868	35	80.30	203
24	52.954	79	37.19	158	15.966	211	42.54	220	22.35	21	94.72	244	27.833	78	82.33	171
Dez. 4	52.875	117	38.77	123	15.755	254	44.74	179	22.14	27	97.16	202	27.755	119	84.04	135
14	52.758	151	40.00	84	15.501	286	46.53	131	21.87	34	99.18	154	27.636	157	85.39	96
24	52.607	180	40.84	42	15.215	309	47.84	77	21.53	40	100.72	103	27.479	189	86.35	54
34	52.427		41.26		14.906		48.61		21.13		101.75		27.290		86.89	
Mittl. Ort	48.424		3.67		11.080		54.74		16.57		60.04		23.167		48.81	
sec δ, tg δ	1.503		+1.122		1.865		−1.575		2.635		+2.438		1.567		+1.207	
a, *a'*	+3.7		+18.4		+2.2		+18.3		+4.4		+18.3		+3.8		+18.2	
b, *b'*	+0.07		−0.40		−0.10		−0.40		+0.15		−0.41		+0.07		−0.42	

*) Bei Stern 55) und 57) lies Okt. 16

Tag	59) τ Ceti¹) AR.		Dekl.		60) ο Piscium AR.		Dekl.	
1932	1ʰ 40ᵐ		−16° 17′		1ʰ 41ᵐ		+8° 48′	
Jan. 0	55ˢ.081	118	45″.58	71	48ˢ.326	101	63″.48	55
10	54.963	129	46.29	47	48.225	113	62.93	57
20	54.834	133	46.76	20	48.112	120	62.36	58
30	54.701	132	46.96	8	47.992	121	61.78	57
Feb. 9	54.569	124	46.88	36	47.871	115	61.21	51
19	54.445	110	46.52	64	47.756	101	60.70	44
29	54.335	88	45.88	92	47.655	80	60.26	33
März 10	54.247	59	44.96	120	47.575	51	59.93	18
20	54.188	25	43.76	146	47.524	16	59.75	1
30	54.163	15	42.30	171	47.508	24	59.74	19
Apr. 9	54.178	58	40.59	193	47.532	68	59.93	42
19	54.236	103	38.66	214	47.600	112	60.35	67
29	54.339	147	36.52	230	47.712	157	61.02	91
Mai 9	54.486	189	34.22	241	47.869	200	61.93	114
19	54.675	227	31.81	248	48.069	237	63.07	136
29	54.902	261	29.33	249	48.306	269	64.43	156
Juni 8	55.163	288	26.84	245	48.575	296	65.99	172
18	55.451	308	24.39	235	48.871	313	67.71	183
28	55.759	319	22.04	218	49.184	323	69.54	190
Juli 8	56.078	322	19.86	196	49.507	325	71.44	192
18	56.400	318	17.90	168	49.832	320	73.36	189
28	56.718	306	16.22	137	50.152	308	75.25	182
Aug. 7	57.024	287	14.85	103	50.460	289	77.07	169
17	57.311	263	13.82	66	50.749	267	78.76	153
27	57.574	234	13.16	28	51.016	238	80.29	135
Sept. 6	57.808	201	12.88	8	51.254	208	81.64	114
16	58.009	167	12.96	43	51.462	177	82.78	91
26	58.176	132	13.39	75	51.639	145	83.69	70
Okt. 6	58.308	97	14.14	100	51.784	113	84.39	48
16	58.405	63	15.14	121	51.897	82	84.87	27
25	[16] 58.468	31	16.35	134	[17] 51.979	53	85.14	10
Nov. 4	58.499	1	17.69	142	52.032	24	85.24	7
14	58.500	27	19.11	143	52.056	3	85.17	20
24	58.473	53	20.54	136	52.053	27	84.97	32
Dez. 4	58.420	75	21.90	124	52.026	51	84.65	41
14	58.345	95	23.14	108	51.975	72	84.24	48
24	58.250	111	24.22	87	51.903	91	83.76	54
34	58.139		25.09		51.812		83.22	
Mittl. Ort	54.526		42.44		47.989		58.00	
sec δ, tg δ	1.042		−0.292		1.012		+0.155	
a, *a′*	+2.9		+18.1		+3.2		+18.1	
b, *b′*	−0.02		−0.43		+0.01		−0.43	

Tag	61) Lac. ε Sculptoris AR.		Dekl.		62) ζ Ceti AR.		Dekl.	
1932	1ʰ 42ᵐ		−25° 23′		1ʰ 48ᵐ		−10° 39′	
Jan. 0	28ˢ.314	132	37″.82	77	6ˢ.723	106	74″.25	77
10	28.182	142	38.59	44	6.617	119	75.02	57
20	28.040	146	39.03	9	6.498	126	75.59	37
30	27.894	146	39.12	26	6.372	126	75.96	15
Feb. 9	27.748	137	38.86	61	6.246	122	76.11	9
19	27.611	122	38.25	96	6.124	108	76.02	34
29	27.489	99	37.29	129	6.016	89	75.68	58
März 10	27.390	70	36.00	160	5.927	61	75.10	83
20	27.320	34	34.40	189	5.866	28	74.27	109
30	27.286	7	32.51	214	5.838	11	73.18	133
Apr. 9	27.293	51	30.37	237	5.849	53	71.85	157
19	27.344	98	28.00	255	5.902	97	70.28	178
29	27.442	144	25.45	267	5.999	141	68.50	197
Mai 9	27.586	189	22.78	276	6.140	184	66.53	213
19	27.775	230	20.02	277	6.324	223	64.40	223
29	28.005	266	17.25	273	6.547	256	62.17	230
Juni 8	28.271	295	14.52	262	6.803	283	59.87	230
18	28.566	317	11.90	245	7.086	304	57.57	225
28	28.883	331	9.45	221	7.390	317	55.32	214
Juli 8	29.214	336	7.24	191	7.707	321	53.18	198
18	29.550	333	5.33	157	8.028	318	51.20	177
28	29.883	323	3.76	119	8.346	307	49.43	150
Aug. 7	30.206	304	2.57	77	8.653	290	47.93	121
17	30.510	280	1.80	34	8.943	269	46.72	88
27	30.790	250	1.46	10	9.212	241	45.84	53
Sept. 6	31.040	216	1.56	50	9.453	211	45.31	20
16	31.256	179	2.06	89	9.664	178	45.11	13
26	31.435	142	2.95	122	9.842	145	45.24	43
Okt. 6	31.577	105	4.17	150	9.987	113	45.67	69
16	31.682	67	5.67	170	10.100	80	46.36	91
25	[17] 31.749	31	7.37	182	[18] 10.180	48	47.27	108
Nov. 4	31.780	1	9.19	186	10.228	19	48.35	117
14	31.779	32	11.05	182	10.247	9	49.52	121
24	31.747	61	12.87	170	10.238	34	50.73	120
Dez. 4	31.686	85	14.57	152	10.204	58	51.93	114
14	31.601	106	16.09	128	10.146	80	53.07	103
24	31.495	124	17.37	99	10.066	98	54.10	89
34	31.371		18.36		9.968		54.99	
Mittl. Ort	27.611		32.06		6.173		73.37	
sec δ, tg δ	1.107		−0.475		1.018		−0.188	
a, *a′*	+2.8		+18.1		+3.0		+17.9	
b, *b′*	−0.03		−0.43		−0.01		−0.45	

¹) Die jährliche Parallaxe (0″.31) ist bereits berücksichtigt.

Tag	64) α Trianguli AR.		64) α Trianguli Dekl.		63) ε Cassiopeiae AR.		63) ε Cassiopeiae Dekl.		65) ξ Piscium AR.		65) ξ Piscium Dekl.		66) β Arietis AR.		66) β Arietis Dekl.	
1932	1h 49m		+29° 14′		1h 49m		+63° 20′		1h 50m		+2° 51′		1h 50m		+20° 28′	
	s		″		s		″		s		″		s		″	
Jan. 0	12.190	121	66.17	15	28.85	33	30.91	72	2.411	98	12.34	63	53.019	106	44.45	33
10	12.069	137	66.02	41	28.52	36	31.63	19	2.313	112	11.71	59	52.913	122	44.12	48
20	11.932	147	65.61	63	28.16	38	31.82	35	2.201	120	11.12	52	52.791	131	43.64	62
30	11.785	150	64.98	83	27.78	37	31.47	87	2.081	123	10.60	44	52.660	134	43.02	73
Feb. 9	11.635	143	64.15	99	27.41	36	30.60	134	1.958	117	10.16	33	52.526	129	42.29	80
19	11.492	128	63.16	112	27.05	31	29.26	176	1.841	105	9.83	20	52.397	116	41.49	84
29	11.364	103	62.04	118	26.74	26	27.50	209	1.736	86	9.63	5	52.281	94	40.65	82
März 10	11.261	70	60.86	118	26.48	19	25.41	234	1.650	59	9.58	$\overline{12}$	52.187	64	39.83	76
20	11.191	29	59.68	112	26.29	11	23.07	247	1.591	24	9.70	33	52.123	26	39.07	66
30	11.162	$\overline{17}$	58.56	99	26.18	$\overline{1}$	20.60	251	1.567	$\overline{14}$	10.03	54	52.097	$\overline{17}$	38.41	49
Apr. 9	11.179	67	57.57	81	26.17	8	18.09	243	1.581	57	10.57	77	52.114	63	37.92	30
19	11.246	119	56.76	58	26.25	17	15.66	227	1.638	102	11.34	100	52.177	111	37.62	6
29	11.365	170	56.18	31	26.42	27	13.39	200	1.740	146	12.34	123	52.288	158	37.56	$\overline{19}$
Mai 9	11.535	217	55.87	1	26.69	36	11.39	167	1.886	188	13.57	144	52.446	203	37.75	47
19	11.752	260	55.86	$\overline{30}$	27.05	43	9.72	129	2.074	226	15.01	163	52.649	244	38.22	75
29	12.012	296	56.16	61	27.48	49	8.43	86	2.300	260	16.64	178	52.893	278	38.97	101
Juni 8	12.308	325	56.77	92	27.97	55	7.57	39	2.560	286	18.42	189	53.171	306	39.98	124
18	12.633	345	57.69	119	28.52	58	7.18	$\overline{8}$	2.846	306	20.31	196	53.477	325	41.22	146
28	12.978	356	58.88	144	29.10	60	7.26	55	3.152	317	22.27	197	53.802	337	42.68	164
Juli 8	13.334	360	60.32	165	29.70	61	7.81	101	3.469	321	24.24	194	54.139	340	44.32	176
18	13.694	354	61.97	182	30.31	61	8.82	144	3.790	317	26.18	185	54.479	336	46.08	185
28	14.048	342	63.79	195	30.92	58	10.26	184	4.107	307	28.03	172	54.815	325	47.93	189
Aug. 7	14.390	323	65.74	202	31.50	55	12.10	220	4.414	290	29.75	154	55.140	306	49.82	189
17	14.713	298	67.76	205	32.05	51	14.30	251	4.704	268	31.29	133	55.446	283	51.71	183
27	15.011	269	69.81	204	32.56	46	16.81	277	4.972	241	32.62	109	55.729	256	53.54	175
Sept. 6	15.280	238	71.85	199	33.02	41	19.58	297	5.213	213	33.71	84	55.985	226	55.29	163
16	15.518	204	73.84	191	33.43	35	22.55	311	5.426	181	34.55	59	56.211	195	56.92	148
26	15.722	170	75.75	180	33.78	28	25.66	321	5.607	150	35.14	34	56.406	162	58.40	133
Okt. 6	15.892	136	77.55	166	34.06	21	28.87	323	5.757	119	35.48	10	56.568	130	59.73	115
16	16.028	101	79.21	149	34.27	15	32.10	318	5.876	88	35.58	$\overline{11}$	56.698	98	60.88	97
25	[19] 16.129	68	80.70	132	[19] 34.42	8	35.28	308	[19] 5.964	58	35.47	28	[19] 56.796	67	61.85	79
Nov. 4	16.197	35	82.02	113	34.50	0	38.36	291	6.022	30	35.19	42	56.863	36	62.64	62
14	16.232	3	83.15	93	34.50	6	41.27	265	6.052	2	34.77	54	56.899	7	63.26	44
24	16.235	$\overline{27}$	84.08	71	34.44	13	43.92	234	6.054	$\overline{23}$	34.23	61	56.906	$\overline{21}$	63.70	26
Dez. 4	16.208	57	84.79	47	34.31	19	46.26	196	6.031	47	33.62	65	56.885	47	63.96	9
14	16.151	84	85.26	23	34.12	25	48.22	152	5.984	69	32.97	67	56.838	72	64.05	9
24	16.067	107	85.49	$\overline{2}$	33.87	31	49.74	103	5.915	89	32.30	66	56.766	95	63.96	25
34	15.960		85.47		33.56		50.77		5.826		31.64		56.671		63.71	
Mittl. Ort	11.956		53.85		28.86		10.20		1.977		8.63		52.715		34.85	
sec δ, tg δ	1.146		+0.560		2.228		+1.991		1.001		+0.050		1.067		+0.373	
a, *a*′	+3.4		+17.8		+4.3		+17.8		+3.1		+17.8		+3.3		+17.7	
b, *b*′	+0.03		− 0.46		+0.12		− 0.46		0.00		− 0.46		+0.02		− 0.47	

Scheinbare Sternörter 1932

Tag	67) ψ Phoenicis AR.		Dekl.		68) χ Eridani AR.		Dekl.		72) α Hydri AR.		Dekl.		71) υ Ceti AR.		Dekl.	
1932	1h 50m		−46° 37′		1h 53m		−51° 56′		1h 56m		−61° 53′		1h 56m		−21° 23′	
	s		″		s		″		s		″		s		″	
Jan. 0	56.444	218	78.43	75	20.082	256	61.80	71	39.55	37	74.74	63	48.778	121	87.82	87
10	56.226	230	79.18	24	19.826	269	62.51	17	39.18	39	75.37	5	48.657	134	88.69	57
20	55.996	234	79.42	27	19.557	273	62.68	36	38.79	40	75.42	54	48.523	143	89.26	25
30	55.762	231	79.15	77	19.284	268	62.32	89	38.39	39	74.88	110	48.380	144	89.51	7
Feb. 9	55.531	218	78.38	125	19.016	253	61.43	140	38.00	36	73.78	163	48.236	139	89.44	40
19	55.313	197	77.13	171	18.763	230	60.03	187	37.64	33	72.15	212	48.097	126	89.04	73
29	55.116	168	75.42	211	18.533	197	58.16	229	37.31	29	70.03	255	47.971	107	88.31	104
März 10	54.948	130	73.31	248	18.336	156	55.87	267	37.02	24	67.48	293	47.864	79	87.27	135
20	54.818	86	70.83	280	18.180	106	53.20	298	36.78	17	64.55	324	47.785	45	85.92	164
30	54.732	35	68.03	305	18.074	51	50.22	323	36.61	10	61.31	347	47.740	6	84.28	190
Apr. 9	54.697	20	64.98	325	18.023	9	46.99	341	36.51	3	57.84	364	47.734	38	82.38	214
19	54.717	77	61.73	337	18.032	72	43.58	353	36.48	6	54.20	373	47.772	84	80.24	233
29	54.794	135	58.36	343	18.104	135	40.05	357	36.54	13	50.47	373	47.856	129	77.91	249
Mai 9	54.929	192	54.93	341	18.239	198	36.48	353	36.67	21	46.74	366	47.985	174	75.42	261
19	55.121	244	51.52	332	18.437	256	32.95	342	36.88	29	43.08	350	48.159	216	72.81	265
29	55.365	292	48.20	315	18.693	308	29.53	322	37.17	36	39.58	327	48.375	252	70.16	265
Juni 8	55.657	332	45.05	291	19.001	353	26.31	295	37.53	41	36.31	296	48.627	282	67.51	258
18	55.989	363	42.14	259	19.354	389	23.36	261	37.94	46	33.35	256	48.909	306	64.93	245
28	56.352	386	39.55	221	19.743	415	20.75	220	38.40	50	30.79	211	49.215	321	62.48	225
Juli 8	56.738	398	37.34	177	20.158	430	18.55	173	38.90	52	28.68	161	49.536	328	60.23	199
18	57.136	399	35.57	129	20.588	434	16.82	122	39.42	53	27.07	106	49.864	327	58.24	169
28	57.535	391	34.28	76	21.022	426	15.60	67	39.95	53	26.01	48	50.191	319	56.55	133
Aug. 7	57.926	372	33.52	22	21.448	407	14.93	11	40.48	50	25.53	11	50.510	303	55.22	95
17	58.298	345	33.30	33	21.855	378	14.82	45	40.98	47	25.64	70	50.813	282	54.27	54
27	58.643	309	33.63	85	22.233	339	15.27	100	41.45	42	26.34	126	51.095	255	53.73	13
Sept. 6	58.952	266	34.48	134	22.572	293	16.27	150	41.87	36	27.60	178	51.350	224	53.60	28
16	59.218	219	35.82	179	22.865	240	17.77	195	42.23	30	29.38	223	51.574	190	53.88	67
26	59.437	169	37.61	215	23.105	184	19.72	232	42.53	22	31.61	259	51.764	155	54.55	100
Okt. 6	59.606	116	39.76	243	23.289	125	22.04	259	42.75	14	34.20	286	51.919	119	55.55	129
16	59.722	63	42.19	261	23.414	65	24.63	276	42.89	6	37.06	301	52.038	84	56.84	152
25	[19] 59.785	12	44.80	268	[20] 23.479	7	27.39	283	[20] 42.95	2	40.07	305	[20] 52.122	50	58.36	166
Nov. 4	59.797	36	47.48	264	23.486	49	30.22	277	42.93	9	43.12	295	52.172	17	60.02	174
14	59.761	81	50.12	250	23.437	101	32.99	261	42.84	17	46.07	275	52.189	13	61.76	173
24	59.680	121	52.62	226	23.336	147	35.60	233	42.67	23	48.82	243	52.176	43	63.49	165
Dez. 4	59.559	157	54.88	192	23.189	187	37.93	197	42.44	29	51.25	203	52.133	68	65.14	150
14	59.402	186	56.80	153	23.002	220	39.90	154	42.15	33	53.28	154	52.065	91	66.64	131
24	59.216	209	58.33	106	22.782	246	41.44	106	41.82	36	54.82	100	51.974	112	67.95	105
34	59.007		59.39		22.536		42.50		41.46		55.82		51.862		69.00	
Mittl. Ort	55.242		67.59		18.677		50.02		37.59		61.53		48.051		83.91	
sec δ, tg δ	1.456		−1.059		1.622		−1.277		2.123		−1.873		1.074		−0.392	
a, *a′*	+2.4		+17.7		+2.3		+17.6		+1.9		+17.5		+2.8		+17.5	
b, *b′*	−0.06		−0.47		−0.07		−0.47		−0.11		−0.49		−0.02		−0.49	

Tag	70) 50 Cassiopeiae AR.		Dekl.		73) γ Andromedae AR.		Dekl.		74) α Arietis AR.		Dekl.		75) β Trianguli AR.		Dekl.	
1932	1h 57m		+72° 5′		1h 59m		+42° 0′		2h 3m		+23° 8′		2h 5m		+34° 39′	
	s		″		s		″		s		″		s		″	
Jan. 0	35.27	52	58.36	106	43.204	153	31.27	24	20.450	106	41.00	22	29.717	127	73.61	8
10	34.75	57	59.42	48	43.051	175	31.51	12	20.344	124	40.78	40	29.590	147	73.69	20
20	34.18	59	59.90	10	42.876	189	31.39	48	20.220	136	40.38	56	29.443	162	73.49	49
30	33.59	60	59.80	68	42.687	193	30.91	82	20.084	141	39.82	69	29.281	168	73.00	75
Feb. 9	32.99	56	59.12	123	42.494	187	30.09	111	19.943	138	39.13	80	29.113	163	72.25	97
19	32.43	51	57.89	171	42.307	169	28.98	135	19.805	127	38.33	87	28.950	150	71.28	116
29	31.92	42	56.18	212	42.138	141	27.63	154	19.678	105	37.46	89	28.800	126	70.12	128
März 10	31.50	33	54.06	243	41.997	102	26.09	166	19.573	76	36.57	86	28.674	93	68.84	134
20	31.17	20	51.63	264	41.895	54	24.43	168	19.497	39	35.71	78	28.581	50	67.50	134
30	30.97	8	48.99	273	41.841	0	22.75	163	19.458	4	34.93	65	28.531	2	66.16	127
Apr. 9	30.89	6	46.26	271	41.841	59	21.12	150	19.462	51	34.28	46	28.529	51	64.89	111
19	30.95	20	43.55	259	41.900	119	19.62	130	19.513	100	33.82	25	28.580	106	63.78	91
29	31.15	34	40.96	237	42.019	178	18.32	105	19.613	149	33.57	0	28.686	160	62.87	67
Mai 9	31.49	46	38.59	206	42.197	234	17.27	75	19.762	195	33.57	27	28.846	212	62.20	38
19	31.95	57	36.53	169	42.431	285	16.52	41	19.957	238	33.84	54	29.058	259	61.82	7
29	32.52	66	34.84	125	42.716	327	16.11	4	20.195	275	34.38	82	29.317	299	61.75	25
Juni 8	33.18	74	33.59	79	43.043	361	16.07	32	20.470	305	35.20	107	29.616	331	62.00	58
18	33.92	79	32.80	29	43.404	387	16.39	68	20.775	326	36.27	130	29.947	355	62.58	88
28	34.71	83	32.51	20	43.791	402	17.07	102	21.101	339	37.57	149	30.302	371	63.46	117
Juli 8	35.54	84	32.71	70	44.193	407	18.09	133	21.440	345	39.06	165	30.673	377	64.63	143
18	36.38	84	33.41	118	44.600	404	19.42	162	21.785	343	40.71	176	31.050	374	66.06	165
28	37.22	82	34.59	163	45.004	392	21.04	187	22.128	333	42.47	183	31.424	364	67.71	182
Aug. 7	38.04	78	36.22	205	45.396	372	22.91	206	22.461	317	44.30	185	31.788	347	69.53	196
17	38.82	73	38.27	242	45.768	347	24.97	220	22.778	295	46.15	183	32.135	324	71.49	205
27	39.55	66	40.69	274	46.115	316	27.17	231	23.073	270	47.98	178	32.459	297	73.54	209
Sept. 6	40.21	59	43.43	301	46.431	282	29.48	238	23.343	241	49.76	168	32.756	266	75.63	210
16	40.80	50	46.44	322	46.713	245	31.86	239	23.584	210	51.44	156	33.022	232	77.73	206
26	41.30	41	49.66	337	46.958	206	34.25	236	23.794	178	53.00	143	33.254	198	79.79	199
Okt. 6	41.71	32	53.03	345	47.164	167	36.61	229	23.972	146	54.43	127	33.452	163	81.78	190
16	42.03	21	56.48	346	47.331	127	38.90	219	24.118	114	55.70	111	33.615	126	83.68	178
25	[21] 42.24	11	59.94	340	[21] 47.458	87	41.09	205	[22] 24.232	82	56.81	93	[23] 33.741	91	85.46	163
Nov. 4	42.35	0	63.34	326	47.545	47	43.14	187	24.314	51	57.74	77	33.832	55	87.09	145
14	42.35	11	66.60	303	47.592	8	45.01	165	24.365	20	58.51	59	33.887	20	88.54	125
24	42.24	21	69.63	273	47.600	31	46.66	140	24.385	10	59.10	41	33.907	15	89.79	104
Dez. 4	42.03	31	72.36	235	47.569	69	48.06	111	24.375	39	59.51	23	33.892	49	90.83	79
14	41.72	40	74.71	190	47.500	104	49.17	78	24.336	67	59.74	5	33.843	81	91.62	52
24	41.32	48	76.61	139	47.396	135	49.95	45	24.269	92	59.79	13	33.762	110	92.14	24
34	40.84		78.00		47.261		50.40		24.177		59.66		33.652		92.38	
Mittl. Ort	35.21		36.32		42.963		15.16		20.081		30.30		29.394		59.43	
sec δ, tg δ	3.252		+3.095		1.346		+0.901		1.088		+0.427		1.216		+0.692	
a, *a′*	+5.1		+17.5		+3.7		+17.4		+3.4		+17.2		+3.6		+17.1	
b, *b′*	+0.18		−0.49		+0.05		−0.50		+0.02		−0.51		+0.04		−0.52	

Scheinbare Sternörter 1932

Tag	76) 55 Cassiopeiae AR.		Dekl.		78) Lac. μ Fornacis AR.		Dekl.		80) 67 Ceti AR.		Dekl.		85) ξ² Ceti AR.		Dekl.	
1932	2h 9m		+66° 12′		2h 9m		−31° 1′		2h 13m		−6° 43′		2h 24m		+8° 9′	
Jan. 0	7.47	36	46.20	103	55.794	144	98.17	100	36.052	97	63.95	81	33.020	88	28.55	54
10	7.11	40	47.23	49	55.650	159	99.17	61	35.955	114	64.76	66	32.932	108	28.01	53
20	6.71	43	47.72	5	55.491	169	99.78	20	35.841	126	65.42	49	32.824	123	27.48	52
30	6.28	43	47.67	60	55.322	172	99.98	20	35.715	132	65.91	30	32.701	132	26.96	49
Feb. 9	5.85	42	47.07	111	55.150	168	99.78	61	35.583	131	66.21	9	32.569	133	26.47	44
19	5.43	38	45.96	157	54.982	156	99.17	101	35.452	122	66.30	12	32.436	126	26.03	37
29	5.05	33	44.39	195	54.826	136	98.16	138	35.330	106	66.18	35	32.310	110	25.66	26
März 10	4.72	25	42.44	225	54.690	108	96.78	173	35.224	81	65.83	58	32.200	87	25.40	13
20	4.47	17	40.19	245	54.582	73	95.05	205	35.143	50	65.25	82	32.113	55	25.27	2
30	4.30	7	37.74	254	54.509	32	93.00	233	35.093	12	64.43	105	32.058	17	25.29	20
Apr. 9	4.23	4	35.20	253	54.477	14	90.67	257	35.081	29	63.38	129	32.041	25	25.49	40
19	4.27	15	32.67	242	54.491	63	88.10	276	35.110	74	62.09	152	32.066	71	25.89	62
29	4.42	25	30.25	221	54.554	112	85.34	290	35.184	118	60.57	172	32.137	117	26.51	84
Mai 9	4.67	35	28.04	192	54.666	160	82.44	298	35.302	162	58.85	189	32.254	161	27.35	106
19	5.02	44	26.12	157	54.826	205	79.46	300	35.464	203	56.96	203	32.415	203	28.41	126
29	5.46	51	24.55	116	55.031	247	76.46	294	35.667	239	54.93	212	32.618	240	29.67	144
Juni 8	5.97	58	23.39	72	55.278	281	73.52	281	35.906	268	52.81	217	32.858	270	31.11	159
18	6.55	62	22.67	26	55.559	309	70.71	262	36.174	292	50.64	217	33.128	295	32.70	171
28	7.17	65	22.41	21	55.868	329	68.09	236	36.466	308	48.47	211	33.423	311	34.41	177
Juli 8	7.82	67	22.62	68	56.197	340	65.73	203	36.774	317	46.36	198	33.734	320	36.18	179
18	8.49	67	23.30	112	56.537	343	63.70	166	37.091	317	44.38	181	34.054	322	37.97	176
28	9.16	65	24.42	155	56.880	337	62.04	123	37.408	310	42.57	159	34.376	316	39.73	168
Aug. 7	9.81	63	25.97	194	57.217	324	60.81	78	37.718	297	40.98	133	34.692	305	41.41	157
17	10.44	59	27.91	228	57.541	304	60.03	30	38.015	279	39.65	103	34.997	288	42.98	140
27	11.03	54	30.19	258	57.845	277	59.73	18	38.294	256	38.62	72	35.285	266	44.38	122
Sept. 6	11.57	49	32.77	283	58.122	245	59.91	65	38.550	229	37.90	39	35.551	241	45.60	101
16	12.06	43	35.60	302	58.367	210	60.56	107	38.779	200	37.51	8	35.792	213	46.61	79
26	12.49	36	38.62	315	58.577	173	61.63	145	38.979	170	37.43	23	36.005	185	47.40	56
Okt. 6	12.85	28	41.77	322	58.750	134	63.08	177	39.149	138	37.66	50	36.190	156	47.96	35
16	13.13	21	44.99	324	58.884	94	64.85	200	39.287	107	38.16	72	36.346	126	48.31	15
25*)	13.34	13	48.23	318	58.978	56	66.85	215	39.394	76	38.88	90	36.472	96	48.46	3
Nov. 4	13.47	6	51.41	304	59.034	18	69.00	221	39.470	47	39.78	103	36.568	66	48.43	18
14	13.53	3	54.45	284	59.052	18	71.21	217	39.517	17	40.81	111	36.634	37	48.25	30
24	13.50	11	57.29	257	59.034	51	73.38	205	39.534	11	41.92	112	36.671	8	47.95	39
Dez. 4	13.39	19	59.86	222	58.983	81	75.43	184	39.523	37	43.04	110	36.679	21	47.56	47
14	13.20	26	62.08	180	58.902	109	77.27	156	39.486	63	44.14	102	36.658	49	47.09	51
24	12.94	33	63.88	133	58.793	132	78.83	124	39.423	85	45.16	91	36.609	74	46.58	55
34	12.61		65.21		58.661		80.07		39.338		46.07		36.535		46.03	
Mittl. Ort	7.18		24.97		54.844		92.12		35.405		65.29		32.433		22.14	
sec δ, tg δ	2.479		+2.268		1.167		−0.602		1.007		−0.118		1.010		+0.143	
a, a′	+4.7		+16.9		+2.6		+16.9		+3.0		+16.7		+3.2		+16.2	
b, b′	+0.13		−0.53		−0.03		−0.54		−0.01		−0.55		+0.01		−0.59	

*) Bei Stern 85) lies Okt. 26

Tag	87) 36 H. Cassiopeiae AR.		87) Dekl.		90) μ Hydri AR.		90) Dekl.		89) ν Arietis AR.		89) Dekl.		91) δ Ceti AR.		91) Dekl.	
1932	2h 31m		+72° 31′		2h 32m		−79° 23′		2h 34m		+21° 40′		2h 35m		+0° 2′	
Jan. 0	32.26	49	42.96	147	70.16	114	94.73	86	57.580	91	16.81	15	60.391	85	13.95	74
10	31.77	55	44.43	92	69.02	121	95.59	26	57.489	115	16.66	29	60.306	107	13.21	64
20	31.22	59	45.35	35	67.81	123	95.85	35	57.374	133	16.37	42	60.199	123	12.57	54
30	30.63	62	45.70	24	66.58	122	95.50	94	57.241	144	15.95	53	60.076	134	12.03	42
Feb. 9	30.01	61	45.46	79	65.36	119	94.56	151	57.097	148	15.42	62	59.942	136	11.61	28
19	29.40	57	44.67	132	64.17	112	93.05	202	56.949	141	14.80	69	59.806	132	11.33	13
29	28.83	50	43.35	178	63.05	102	91.03	249	56.808	126	14.11	73	59.674	118	11.20	5
März 10	28.33	41	41.57	216	62.03	90	88.54	288	56.682	101	13.38	70	59.556	96	11.25	23
20	27.92	30	39.41	244	61.13	75	85.66	321	56.581	67	12.68	65	59.460	66	11.48	43
30	27.62	18	36.97	262	60.38	58	82.45	347	56.514	27	12.03	54	59.394	30	11.91	64
Apr. 9	27.44	4	34.35	269	59.80	41	78.98	365	56.487	18	11.49	40	59.364	11	12.55	86
19	27.40	11	31.66	265	59.39	23	75.33	376	56.505	67	11.09	21	59.375	55	13.41	108
29	27.51	25	29.01	252	59.16	3	71.57	377	56.572	116	10.88	1	59.430	101	14.49	129
Mai 9	27.76	38	26.49	229	59.13	17	67.80	372	56.688	164	10.89	24	59.531	145	15.78	149
19	28.14	50	24.20	198	59.30	36	64.08	357	56.852	209	11.13	48	59.676	187	17.27	165
29	28.64	61	22.22	162	59.66	54	60.51	335	57.061	249	11.61	72	59.863	225	18.92	179
Juni 8	29.25	70	20.60	119	60.20	70	57.16	304	57.310	282	12.33	95	60.088	257	20.71	189
18	29.95	78	19.41	74	60.90	86	54.12	267	57.592	308	13.28	116	60.345	282	22.60	195
28	30.73	83	18.67	27	61.76	98	51.45	222	57.900	327	14.44	134	60.627	301	24.55	194
Juli 8	31.56	86	18.40	21	62.74	108	49.23	171	58.227	338	15.78	147	60.928	312	26.49	189
18	32.42	87	18.61	68	63.82	115	47.52	116	58.565	340	17.25	157	61.240	316	28.38	179
28	33.29	87	19.29	114	64.97	118	46.36	57	58.905	336	18.82	164	61.556	313	30.17	163
Aug. 7	34.16	85	20.43	157	66.15	117	45.79	4	59.241	325	20.46	165	61.869	303	31.80	144
17	35.01	81	22.00	198	67.32	113	45.83	64	59.566	309	22.11	162	62.172	288	33.24	120
27	35.82	76	23.98	233	68.45	105	46.47	123	59.875	288	23.73	156	62.460	268	34.44	95
Sept. 6	36.58	69	26.31	264	69.50	93	47.70	178	60.163	264	25.29	148	62.728	245	35.39	67
16	37.27	62	28.95	291	70.43	78	49.48	227	60.427	237	26.77	136	62.973	219	36.06	38
26	37.89	53	31.86	311	71.21	61	51.75	267	60.664	207	28.13	122	63.192	190	36.44	11
Okt. 6	38.42	44	34.97	326	71.82	41	54.42	298	60.871	178	29.35	108	63.382	162	36.55	14
16	38.86	34	38.23	334	72.23	20	57.40	317	61.049	148	30.43	93	63.544	133	36.41	36
26	39.20	24	41.57	335	72.43	2	60.57	323	61.197	116	31.36	78	63.677	102	36.05	55
Nov. 4	20 39.44	12	44.92	329	30 72.41	25	63.80	318	30 61.313	85	32.14	64	30 63.779	73	35.50	69
14	39.56	0	48.21	314	72.16	46	66.98	299	61.398	52	32.78	49	63.852	43	34.81	80
24	39.56	11	51.35	291	71.70	65	69.97	269	61.450	20	33.27	35	63.895	13	34.01	85
Dez. 4	39.45	22	54.26	261	71.05	83	72.66	228	61.470	12	33.62	21	63.908	16	33.16	86
14	39.23	33	56.87	223	70.22	98	74.94	180	61.458	44	33.83	6	63.892	44	32.30	85
24	38.90	43	59.10	176	69.24	109	76.74	125	61.414	73	33.89	8	63.848	71	31.45	80
34	38.47		60.86		68.15		77.99		61.341		33.81		63.777		30.65	
Mittl. Ort	31.44		21.04		64.08		82.46		57.003		6.06		59.686		9.77	
sec δ, tg δ	3.330		+3.176		5.439		−5.347		1.076		+0.397		1.000		+0.001	
a, *a'*	+5.7		+15.8		−1.4		+15.7		+3.4		+15.6		+3.1		+15.6	
b, *b'*	+0.17		− 0.61		−0.28		− 0.62		+0.02		− 0.63		0.00		− 0.63	

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Tag	93) ϑ Persei AR.		93) ϑ Persei Dekl.		97) π Ceti AR.		97) π Ceti Dekl.	
1932	$2^h 39^m$		$+48° 56'$		$2^h 40^m$		$-14° 8'$	
Jan. 0	33.225	157	49.15	78	53.978	97	44.77	104
10	33.068	192	49.93	39	53.881	119	45.81	81
20	32.876	218	50.32	1	53.762	135	46.62	56
30	32.658	234	50.31	41	53.627	146	47.18	29
Feb. 9	32.424	236	49.90	78	53.481	148	47.47	1
19	32.188	226	49.12	112	53.333	144	47.48	27
29	31.962	202	48.00	141	53.189	131	47.21	56
März 10	31.760	164	46.59	163	53.058	109	46.65	84
20	31.596	116	44.96	178	52.949	80	45.81	112
30	31.480	59	43.18	184	52.869	44	44.69	139
Apr. 9	31.421	7	41.34	181	52.825	3	43.30	164
19	31.428	73	39.53	172	52.822	41	41.66	186
29	31.501	142	37.81	154	52.863	87	39.80	206
Mai 9	31.643	207	36.27	130	52.950	132	37.74	222
19	31.850	269	34.97	102	53.082	176	35.52	234
29	32.119	322	33.95	70	53.258	215	33.18	241
Juni 8	32.441	369	33.25	34	53.473	248	30.77	241
18	32.810	405	32.91	2	53.721	277	28.36	236
28	33.215	430	32.93	38	53.998	297	26.00	226
Juli 8	33.645	446	33.31	74	54.295	311	23.74	208
18	34.091	452	34.05	107	54.606	316	21.66	185
28	34.543	448	35.12	136	54.922	315	19.81	157
Aug. 7	34.991	436	36.48	163	55.237	306	18.24	124
17	35.427	416	38.11	187	55.543	292	17.00	89
27	35.843	391	39.98	207	55.835	273	16.11	51
Sept. 6	36.234	360	42.05	221	56.108	250	15.60	12
16	36.594	324	44.26	231	56.358	222	15.48	26
26	36.918	287	46.57	238	56.580	193	15.74	60
Okt. 6	37.205	246	48.95	241	56.773	163	16.34	92
16	37.451	202	51.36	239	56.936	131	17.26	118
26	37.653	157	53.75	233	57.067	99	18.44	137
Nov. 4	[31] 37.810	110	56.08	222	[1] 57.166	67	19.81	151
14	37.920	62	58.30	207	57.233	36	21.32	157
24	37.982	12	60.37	187	57.269	4	22.89	157
Dez. 4	37.994	37	62.24	162	57.273	26	24.46	149
14	37.957	85	63.86	132	57.247	55	25.95	137
24	37.872	131	65.18	98	57.192	83	27.32	119
34	37.741		66.16		57.109		28.51	
Mittl. Ort	32.630		31.29		53.116		44.87	
sec δ, tg δ	1.523		+1.148		1.031		−0.252	
a, a'	+4.1		+15.4		+2.9		+15.3	
b, b'	+0.06		− 0.64		−0.01		− 0.65	

Tag	98) μ Ceti AR.		98) μ Ceti Dekl.		100) 41 Arietis AR.		100) 41 Arietis Dekl.	
1932	$2^h 41^m$		$+9° 49'$		$2^h 45^m$		$+26° 58'$	
Jan. 0	16.435	81	48.09	48	59.166	91	65.17	6
10	16.354	104	47.61	50	59.075	118	65.23	12
20	16.250	123	47.11	50	58.957	139	65.11	30
30	16.127	134	46.61	48	58.818	154	64.81	48
Feb. 9	15.993	138	46.13	44	58.664	159	64.33	63
19	15.855	134	45.69	39	58.505	154	63.70	75
29	15.721	121	45.30	31	58.351	140	62.95	84
März 10	15.600	99	44.99	20	58.211	115	62.11	88
20	15.501	69	44.79	6	58.096	80	61.23	87
30	15.432	31	44.73	10	58.016	40	60.36	81
Apr. 9	15.401	10	44.83	28	57.976	7	59.55	70
19	15.411	56	45.11	49	57.983	58	58.85	53
29	15.467	102	45.60	70	58.041	110	58.32	34
Mai 9	15.569	148	46.30	91	58.151	159	57.98	12
19	15.717	191	47.21	112	58.310	207	57.86	13
29	15.908	229	48.33	130	58.517	250	57.99	39
Juni 8	16.137	262	49.63	145	58.767	285	58.38	63
18	16.399	289	51.08	158	59.052	314	59.01	87
28	16.688	307	52.66	166	59.366	334	59.88	108
Juli 8	16.995	318	54.32	170	59.700	347	60.96	126
18	17.313	323	56.02	169	60.047	352	62.22	141
28	17.636	320	57.71	163	60.399	350	63.63	153
Aug. 7	17.956	311	59.34	153	60.749	340	65.16	159
17	18.267	296	60.87	139	61.089	326	66.75	162
27	18.563	276	62.26	122	61.415	305	68.37	162
Sept. 6	18.839	254	63.48	102	61.720	282	69.99	158
16	19.093	229	64.50	82	62.002	256	71.57	151
26	19.322	202	65.32	61	62.258	227	73.08	142
Okt. 6	19.524	173	65.93	39	62.485	197	74.50	132
16	19.697	144	66.32	21	62.682	166	75.82	120
26	19.841	115	66.53	3	62.848	134	77.02	107
Nov. 4	[1] 19.956	85	66.56	11	[2] 62.982	101	78.09	94
14	20.041	54	66.45	23	63.083	66	79.03	80
24	20.095	24	66.22	33	63.149	32	79.83	65
Dez. 4	20.119	7	65.89	41	63.181	3	80.48	49
14	20.112	36	65.48	45	63.178	39	80.97	33
24	20.076	65	65.03	49	63.139	72	81.30	15
34	20.011		64.54		63.067		81.45	
Mittl. Ort	15.767		40.79		58.536		52.81	
sec δ, tg δ	1.015		+0.173		1.122		+0.509	
a, a'	+3.2		+15.3		+3.5		+15.0	
b, b'	+0.01		− 0.65		+0.03		− 0.66	

Tag	101) β Fornacis AR.		101) β Fornacis Dekl.		102) τ² Eridani AR.		102) τ² Eridani Dekl.		103) τ Persei AR.		103) τ Persei Dekl.		104) η Eridani AR.		104) η Eridani Dekl.	
1932	2h 46m		−32° 40′		2h 47m		−21° 16′		2h 49m		+52° 29′		2h 53m		−9° 9′	
Jan. 0	15.807	138	91.26	132	58.192	107	62.81	120	26.117	168	26.42	99	7.110	86	62.42	100
10	15.669	162	92.58	93	58.085	130	64.01	91	25.949	209	27.41	58	7.024	109	63.42	82
20	15.507	178	93.51	51	57.955	147	64.92	58	25.740	240	27.99	16	6.915	128	64.24	62
30	15.329	189	94.02	8	57.808	159	65.50	25	25.500	259	28.15	26	6.787	141	64.86	39
Feb. 9	15.140	192	94.10	35	57.649	163	65.75	10	25.241	265	27.89	68	6.646	147	65.25	16
19	14.948	186	93.75	78	57.486	158	65.65	44	24.976	255	27.21	106	6.499	145	65.41	8
29	14.762	170	92.97	118	57.328	146	65.21	78	24.721	231	26.15	138	6.354	133	65.33	34
März 10	14.592	147	91.79	157	57.182	124	64.43	110	24.490	193	24.77	164	6.221	113	64.99	59
20	14.445	115	90.22	192	57.058	95	63.33	142	24.297	142	23.13	183	6.108	85	64.40	84
30	14.330	76	88.30	223	56.963	59	61.91	171	24.155	81	21.30	194	6.023	51	63.56	108
Apr. 9	14.254	31	86.07	251	56.904	18	60.20	198	24.074	13	19.36	195	5.972	11	62.48	133
19	14.223	17	83.56	274	56.886	28	58.22	221	24.061	59	17.41	188	5.961	33	61.15	156
29	14.240	67	80.82	291	56.914	75	56.01	240	24.120	132	15.53	174	5.994	78	59.59	176
Mai 9	14.307	118	77.91	303	56.989	121	53.61	255	24.252	204	13.79	153	6.072	123	57.83	194
19	14.425	167	74.88	307	57.110	166	51.06	264	24.456	270	12.26	125	6.195	167	55.89	208
29	14.592	212	71.81	305	57.276	208	48.42	267	24.726	329	11.01	94	6.362	206	53.81	217
Juni 8	14.804	252	68.76	296	57.484	244	45.75	265	25.055	381	10.07	58	6.568	241	51.64	222
18	15.056	285	65.80	279	57.728	274	43.10	256	25.436	421	9.49	22	6.809	269	49.42	221
28	15.341	311	63.01	254	58.002	297	40.54	239	25.857	451	9.27	15	7.078	291	47.21	214
Juli 8	15.652	330	60.47	224	58.299	312	38.15	217	26.308	471	9.42	52	7.369	305	45.07	202
18	15.982	339	58.23	187	58.611	321	35.98	188	26.779	479	9.94	87	7.674	313	43.05	184
28	16.321	341	56.36	144	58.932	321	34.10	154	27.258	479	10.81	120	7.987	312	41.21	160
Aug. 7	16.662	335	54.92	98	59.253	314	32.56	116	27.737	468	12.01	150	8.299	306	39.61	132
17	16.997	321	53.94	48	59.567	301	31.40	75	28.205	450	13.51	177	8.605	294	38.29	101
27	17.318	300	53.46	2	59.868	282	30.65	31	28.655	425	15.28	199	8.899	276	37.28	67
Sept. 6	17.618	275	53.48	52	60.150	259	30.34	12	29.080	394	17.27	218	9.175	255	36.61	32
16	17.893	244	54.00	100	60.409	231	30.46	54	29.474	358	19.45	232	9.430	230	36.29	4
26	18.137	210	55.00	143	60.640	202	31.00	94	29.832	319	21.77	243	9.660	203	36.33	37
Okt. 6	18.347	173	56.43	179	60.842	170	31.94	128	30.151	276	24.20	249	9.863	175	36.70	66
16	18.520	134	58.22	209	61.012	136	33.22	155	30.427	230	26.69	250	10.038	145	37.36	93
26	18.654	95	60.31	229	61.148	103	34.77	177	30.657	181	29.19	247	10.183	114	38.29	113
Nov. 4	18.749	56	62.60	239	61.251	68	36.54	190	30.838	130	31.66	239	10.297	84	39.42	128
14	18.805	17	64.99	241	61.319	35	38.44	194	30.968	77	34.05	226	10.381	52	40.70	136
24	18.822	21	67.40	232	61.354	1	40.38	191	31.045	22	36.31	208	10.433	21	42.06	138
Dez. 4	18.801	57	69.72	214	61.355	32	42.29	180	31.067	33	38.39	183	10.454	11	43.44	134
14	18.744	92	71.86	189	61.323	63	44.09	162	31.034	88	40.22	154	10.443	41	44.78	126
24	18.652	122	73.75	156	61.260	91	45.71	140	30.946	138	41.76	119	10.402	70	46.04	113
34	18.530		75.31		61.169		47.11		30.808		42.95		10.332		47.17	
Mittl. Ort	14.637		86.68		57.207		61.22		25.402		7.92		6.243		64.41	
sec δ, tg δ	1.188		−0.642		1.073		−0.390		1.642		+1.302		1.013		−0.161	
a, *a′*	+2.5		+15.0		+2.7		+14.9		+4.2		+14.8		+2.9		+14.6	
b, *b′*	−0.03		−0.66		−0.02		−0.67		+0.06		−0.67		−0.01		−0.69	

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Tag	106) ϑ Eridani AR.		106) ϑ Eridani Dekl.		105) 47 H. Cephei AR.		105) 47 H. Cephei Dekl.		107) α Ceti AR.		107) α Ceti Dekl.		108) γ Persei AR.		108) γ Persei Dekl.	
1932	$2^h\ 55^m$		$-40°\ 34'$		$2^h\ 56^m$		$+79°\ 9'$		$2^h\ 58^m$		$+3°\ 49'$		$2^h\ 59^m$		$+53°\ 14'$	
Jan. 0	42.240	166	40.65	147	60.03	75	31.67	194	44.115	74	32.14	68	52.314	162	48.08	110
10	42.074	193	42.12	103	59.28	89	33.61	141	44.041	99	31.46	61	52.152	207	49.18	70
20	41.881	213	43.15	55	58.39	97	35.02	82	43.942	120	30.85	54	51.945	241	49.88	28
30	41.668	225	43.70	6	57.42	103	35.84	21	43.822	135	30.31	45	51.704	264	50.16	14
Feb. 9	41.443	229	43.76	42	56.39	103	36.05	40	43.687	142	29.86	35	51.440	272	50.02	56
19	41.214	223	43.34	89	55.36	100	35.65	98	43.545	141	29.51	24	51.168	266	49.46	95
29	40.991	207	42.45	135	54.36	91	34.67	151	43.404	130	29.27	10	50.902	244	48.51	130
März 10	40.784	182	41.10	176	53.45	78	33.16	197	43.274	111	29.17	5	50.658	208	47.21	158
20	40.602	149	39.34	214	52.67	61	31.19	234	43.163	84	29.22	22	50.450	158	45.63	179
30	40.453	108	37.20	248	52.06	43	28.85	262	43.079	49	29.44	41	50.292	98	43.84	192
Apr. 9	40.345	60	34.72	277	51.63	22	26.23	278	43.030	9	29.85	60	50.194	29	41.92	195
19	40.285	8	31.95	301	51.41	0	23.45	283	43.021	36	30.45	81	50.165	44	39.97	192
29	40.277	47	28.94	317	51.41	23	20.62	277	43.057	81	31.26	101	50.209	118	38.05	179
Mai 9	40.324	102	25.77	327	51.64	44	17.85	263	43.138	127	32.27	121	50.327	191	36.26	161
19	40.426	155	22.50	331	52.08	64	15.22	238	43.265	170	33.48	139	50.518	259	34.65	135
29	40.581	206	19.19	326	52.72	83	12.84	207	43.435	209	34.87	155	50.777	322	33.30	105
Juni 8	40.787	251	15.93	313	53.55	98	10.77	169	43.644	244	36.42	166	51.099	375	32.25	71
18	41.038	289	12.80	293	54.53	112	9.08	127	43.888	272	38.08	175	51.474	419	31.54	36
28	41.327	320	9.87	266	55.65	122	7.81	80	44.160	293	39.83	178	51.893	451	31.18	0
Juli 8	41.647	344	7.21	231	56.87	130	7.01	32	44.453	308	41.61	177	52.344	474	31.18	37
18	41.991	358	4.90	189	58.17	134	6.69	16	44.761	314	43.38	170	52.818	485	31.55	73
28	42.349	362	3.01	142	59.51	136	6.85	65	45.075	315	45.08	159	53.303	488	32.28	106
Aug. 7	42.711	359	1.59	91	60.87	134	7.50	111	45.390	308	46.67	143	53.791	480	33.34	136
17	43.070	347	0.68	38	62.21	131	8.61	156	45.698	297	48.10	124	54.271	463	34.70	164
27	43.417	327	0.30	18	63.52	125	10.17	198	45.995	280	49.34	101	54.734	441	36.34	188
Sept. 6	43.744	301	0.48	72	64.77	117	12.15	235	46.275	261	50.35	77	55.175	412	38.22	208
16	44.045	268	1.20	123	65.94	106	14.50	269	46.536	237	51.12	52	55.587	377	40.30	224
26	44.313	231	2.43	169	67.00	94	17.19	297	46.773	211	51.64	26	55.964	338	42.54	236
Okt. 6	44.544	191	4.12	209	67.94	80	20.16	319	46.984	184	51.90	2	56.302	297	44.90	244
16	44.735	147	6.21	239	68.74	64	23.35	335	47.168	157	51.92	20	56.599	251	47.34	247
26	44.882	102	8.60	261	69.38	47	26.70	345	47.325	128	51.72	38	56.850	202	49.81	247
Nov. 4*)	[4]44.984	57	11.21	272	69.85	29	30.15	347	47.453	98	51.34	52	57.052	149	52.28	240
14	45.041	12	13.93	272	[5]70.14	9	33.62	339	[5]47.551	67	50.82	63	[5]57.201	95	54.68	229
24	45.053	32	16.65	261	70.23	10	37.01	323	47.618	36	50.19	71	57.296	38	56.97	213
Dez. 4	45.021	74	19.26	241	70.13	29	40.24	298	47.654	5	49.48	74	57.334	19	59.10	191
14	44.947	113	21.67	211	69.84	48	43.22	265	47.659	27	48.74	74	57.315	76	61.01	163
24	44.834	148	23.78	175	69.36	66	45.87	222	47.632	57	48.00	72	57.239	131	62.64	130
34	44.686		25.53		68.70		48.09		47.575		47.28		57.108		63.94	
Mittl. Ort	40.837		34.85		57.91		9.59		43.322		26.24		51.484		29.58	
sec δ, tg δ	1.317		−0.856		5.314		+5.219		1.002		+0.067		1.671		+1.339	
a, a'	+2.3		+14.4		+7.9		+14.4		+3.1		+14.3		+4.3		+14.2	
b, b'	−0.04		− 0.69		+0.25		− 0.70		0.00		− 0.70		+0.06		− 0.71	

*) Bei Stern 105), 107) und 108) lies Nov. 5

Tag	109) ρ Persei				110) μ Horologii				111) β Persei				114) δ Arietis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	3h 0m		+38° 34′		3h 1m		−59° 59′		3h 3m		+40° 41′		3h 7m		+19° 28′	
	s		″		s		″		s		″		s		″	
Jan. 0	49.413	103	56.40	55	62.74	32	72.60	153	44.941	106	57.74	65	44.952	71	25.06	14
10	49.310	137	56.95	27	62.42	36	74.13	100	44.835	142	58.39	36	44.881	100	24.92	23
20	49.173	165	57.22	1	62.06	39	75.13	43	44.693	172	58.75	5	44.781	124	24.69	32
30	49.008	183	57.21	30	61.67	40	75.56	15	44.521	192	58.80	25	44.657	142	24.37	41
Feb. 9	48.825	192	56.91	58	61.27	41	75.41	72	44.329	201	58.55	55	44.515	152	23.96	47
19	48.633	190	56.33	83	60.86	39	74.69	126	44.128	198	58.00	82	44.363	152	23.49	52
29	48.443	174	55.50	104	60.47	36	73.43	176	43.930	184	57.18	106	44.211	141	22.97	54
März 10	48.269	148	54.46	119	60.11	33	71.67	223	43.746	156	56.12	123	44.070	121	22.43	53
20	48.121	111	53.27	129	59.78	28	69.44	263	43.590	119	54.89	135	43.949	93	21.90	48
30	48.010	65	51.98	132	59.50	23	66.81	298	43.471	71	53.54	140	43.856	56	21.42	40
Apr. 9	47.945	13	50.66	129	59.27	15	63.83	327	43.400	18	52.14	139	43.800	14	21.02	28
19	47.932	44	49.37	119	59.12	8	60.56	348	43.382	40	50.75	130	43.786	34	20.74	12
29	47.976	103	48.18	104	59.04	1	57.08	361	43.422	101	49.45	116	43.820	83	20.62	7
Mai 9	48.079	160	47.14	83	59.03	7	53.47	368	43.523	160	48.29	96	43.903	131	20.69	26
19	48.239	214	46.31	59	59.10	15	49.79	365	43.683	215	47.33	72	44.034	177	20.95	47
29	48.453	263	45.72	32	59.25	23	46.14	354	43.898	266	46.61	44	44.211	219	21.42	69
Juni 8	48.716	305	45.40	4	59.48	29	42.60	335	44.164	310	46.17	16	44.430	256	22.11	88
18	49.021	340	45.36	26	59.77	35	39.25	307	44.474	345	46.01	14	44.686	286	22.99	105
28	49.361	365	45.62	54	60.12	41	36.18	271	44.819	372	46.15	43	44.972	309	24.04	121
Juli 8	49.726	382	46.16	80	60.53	45	33.47	228	45.191	391	46.58	72	45.281	324	25.25	133
18	50.108	390	46.96	105	60.98	47	31.19	179	45.582	399	47.30	97	45.605	333	26.58	140
28	50.498	391	48.01	126	61.45	49	29.40	124	45.981	401	48.27	121	45.938	334	27.98	144
Aug. 7	50.889	384	49.27	145	61.94	49	28.16	65	46.382	395	49.48	141	46.272	328	29.42	144
17	51.273	371	50.72	159	62.43	48	27.51	5	46.777	381	50.89	157	46.600	318	30.86	141
27	51.644	352	52.31	170	62.91	45	27.46	57	47.158	362	52.46	170	46.918	302	32.27	132
Sept. 6	51.996	328	54.01	178	63.36	42	28.03	117	47.520	339	54.16	180	47.220	282	33.59	122
16	52.324	301	55.79	182	63.78	37	29.20	171	47.859	312	55.96	186	47.502	260	34.81	111
26	52.625	271	57.61	182	64.15	32	30.91	221	48.171	281	57.82	189	47.762	235	35.92	97
Okt. 6	52.896	238	59.43	181	64.47	25	33.12	262	48.452	249	59.71	189	47.997	208	36.89	82
16	53.134	205	61.24	176	64.72	18	35.74	293	48.701	213	61.60	186	48.205	180	37.71	69
26	53.339	168	63.00	170	64.90	11	38.67	312	48.914	176	63.46	180	48.385	150	38.40	55
Nov. 5	53.507	129	64.70	160	65.01	3	41.79	320	49.090	135	65.26	172	48.535	119	38.95	42
14	[6]53.636	90	66.30	148	[6]65.04	4	44.99	316	[6]49.225	94	66.98	160	[7]48.654	87	39.37	30
24	53.726	48	67.78	132	65.00	12	48.15	299	49.319	51	68.58	145	48.741	53	39.67	19
Dez. 4	53.774	5	69.10	114	64.88	18	51.14	271	49.370	7	70.03	127	48.794	18	39.86	10
14	53.779	38	70.24	94	64.70	24	53.85	233	49.377	38	71.30	105	48.812	16	39.96	1
24	53.741	78	71.18	69	64.46	30	56.18	187	49.339	81	72.35	80	48.796	51	39.95	10
34	53.663		71.87		64.16		58.05		49.258		73.15		48.745		39.85	
Mittl. Ort	48.676		41.06		60.40		64.01		44.174		41.93		44.176		14.62	
sec δ, tg δ	1.279		+0.798		2.000		−1.732		1.319		+0.860		1.061		+0.354	
a, *a′*	+3.8		+14.1		+1.4		+14.0		+3.9		+13.9		+3.4		+13.7	
b, *b′*	+0.04		− 0.71		−0.08		− 0.71		+0.04		− 0.72		+0.02		− 0.73	

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Tag	117) 12 Eridani				115) 48 H. Cephei				120) α Persei				121) o Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$3^h\ 9^m$		−29° 14′		$3^h\ 11^m$		+77° 29′		$3^h\ 19^m$		+49° 37′		$3^h\ 21^m$		+8° 47′	
Jan. 0	12.058	117	78.03	146	39.49	59	37.25	204	28.403	124	31.76	111	9.940	61	34.14	52
10	11.941	144	79.49	111	38.90	72	39.29	153	28.279	169	32.87	76	9.879	90	33.62	50
20	11.797	166	80.60	72	38.18	81	40.82	97	28.110	206	33.63	39	9.789	116	33.12	48
30	11.631	181	81.32	31	37.37	87	41.79	37	27.904	234	34.02	1	9.673	135	32.64	44
Feb. 9	11.450	188	81.63	10	36.50	89	42.16	22	27.670	248	34.03	38	9.538	146	32.20	39
19	11.262	187	81.53	51	35.61	87	41.94	80	27.422	248	33.65	74	9.392	149	31.81	32
29	11.075	176	81.02	91	34.74	81	41.14	134	27.174	233	32.91	106	9.243	142	31.49	24
März 10	10.899	157	80.11	129	33.93	70	39.80	181	26.941	205	31.85	134	9.101	125	31.25	13
20	10.742	128	78.82	165	33.23	58	37.99	220	26.736	163	30.51	156	8.976	99	31.12	1
30	10.614	93	77.17	197	32.65	41	35.79	250	26.573	110	28.95	169	8.877	67	31.11	14
Apr. 9	10.521	50	75.20	227	32.24	24	33.29	269	26.463	49	27.26	175	8.810	27	31.25	30
19	10.471	5	72.93	252	32.00	4	30.60	277	26.414	17	25.51	173	8.783	16	31.55	48
29	10.466	45	70.41	272	31.96	15	27.83	275	26.431	87	23.78	164	8.799	63	32.03	67
Mai 9	10.511	95	67.69	287	32.11	34	25.08	263	26.518	155	22.14	149	8.862	109	32.70	86
19	10.606	142	64.82	295	32.45	51	22.45	242	26.673	221	20.65	127	8.971	154	33.56	104
29	10.748	188	61.87	297	32.96	68	20.03	214	26.894	281	19.38	101	9.125	195	34.60	121
Juni 8	10.936	229	58.90	292	33.64	83	17.89	179	27.175	334	18.37	72	9.320	232	35.81	135
18	11.165	264	55.98	280	34.47	95	16.10	139	27.509	377	17.65	40	9.552	263	37.16	147
28	11.429	291	53.18	260	35.42	105	14.71	95	27.886	412	17.25	7	9.815	286	38.63	153
Juli 8	11.720	313	50.58	234	36.47	113	13.76	49	28.298	436	17.18	25	10.101	303	40.16	156
18	12.033	326	48.24	201	37.60	118	13.27	2	28.734	452	17.43	57	10.404	314	41.72	155
28	12.359	331	46.23	161	38.78	120	13.25	45	29.186	457	18.00	88	10.718	318	43.27	149
Aug. 7	12.690	328	44.62	118	39.98	120	13.70	91	29.643	454	18.88	115	11.036	314	44.76	138
17	13.018	320	43.44	70	41.18	117	14.61	135	30.097	444	20.03	140	11.350	306	46.14	123
27	13.338	304	42.74	22	42.35	113	15.96	177	30.541	426	21.43	162	11.656	293	47.37	106
Sept. 6	13.642	282	42.52	28	43.48	107	17.73	215	30.967	403	23.05	180	11.949	275	48.43	86
16	13.924	257	42.80	76	44.55	98	19.88	249	31.370	374	24.85	195	12.224	256	49.29	65
26	14.181	227	43.56	121	45.53	88	22.37	279	31.744	342	26.80	206	12.480	233	49.94	43
Okt. 6	14.408	194	44.77	159	46.41	77	25.16	302	32.086	305	28.86	214	12.713	208	50.37	22
16	14.602	159	46.36	191	47.18	64	28.18	321	32.391	265	31.00	219	12.921	181	50.59	3
26	14.761	122	48.27	216	47.82	49	31.39	332	32.656	222	33.19	219	13.102	154	50.62	15
Nov. 5	14.883	85	50.43	230	48.31	33	34.71	337	32.878	175	35.38	215	13.256	124	50.47	28
14	[8]14.968	47	52.73	235	[8]48.64	17	38.08	333	[10]33.053	125	37.53	208	[11]13.380	93	50.19	39
24	15.015	9	55.08	231	48.81	0	41.41	320	33.178	72	39.61	195	13.473	60	49.80	47
Dez. 4	15.024	29	57.39	219	48.81	18	44.61	299	33.250	18	41.56	177	13.533	26	49.33	52
14	14.995	64	59.58	198	48.63	35	47.60	269	33.268	37	43.33	155	13.559	7	48.81	55
24	14.931	99	61.56	169	48.28	50	50.29	230	33.231	92	44.88	128	13.552	41	48.26	55
34	14.832		63.25		47.78		52.59		33.139		46.16		13.511		47.71	
Mittl. Ort	10.851		75.47		37.20		15.70		27.428		14.31		9.064		26.45	
sec δ, tg δ	1.146		−0.560		4.616		+4.506		1.544		+1.176		1.012		+0.155	
a, a'	+2.5		+13.6		+7.5		+13.4		+4.3		+12.9		+3.2		+12.8	
b, b'	−0.03		− 0.73		+0.20		− 0.74		+0.05		− 0.76		+0.01		− 0.77	

Tag	122) 2 H. Camelop. AR.		122) Dekl.		125) *f* Tauri AR.		125) Dekl.	
1932	$3^h\,23^m$		$+59°\,42'$		$3^h\,27^m$		$+12°\,42'$	
Jan. 0	33.965	179	37.80	153	7.819	57	25.89	37
10	33.786	239	39.33	113	7.762	88	25.52	39
20	33.547	287	40.46	68	7.674	115	25.13	40
30	33.260	321	41.14	21	7.559	135	24.73	40
Feb. 9	32.939	339	41.35	25	7.424	148	24.33	39
19	32.600	338	41.10	70	7.276	152	23.94	37
29	32.262	319	40.40	113	7.124	146	23.57	32
März 10	31.943	282	39.27	149	6.978	129	23.25	26
20	31.661	229	37.78	179	6.849	104	22.99	17
30	31.432	162	35.99	200	6.745	71	22.82	5
Apr. 9	31.270	85	33.99	213	6.674	32	22.77	9
19	31.185	1	31.86	216	6.642	13	22.86	25
29	31.184	86	29.70	211	6.655	59	23.11	43
Mai 9	31.270	172	27.59	199	6.714	107	23.54	61
19	31.442	255	25.60	178	6.821	153	24.15	80
29	31.697	331	23.82	152	6.974	194	24.95	97
Juni 8	32.028	398	22.30	122	7.168	231	25.92	113
18	32.426	455	21.08	87	7.399	263	27.05	127
28	32.881	500	20.21	50	7.662	288	28.32	136
Juli 8	33.381	533	19.71	13	7.950	306	29.68	142
18	33.914	554	19.58	26	8.256	317	31.10	144
28	34.468	565	19.84	62	8.573	322	32.54	142
Aug. 7	35.033	564	20.46	98	8.895	319	33.96	135
17	35.597	553	21.44	131	9.214	311	35.31	124
27	36.150	534	22.75	161	9.525	300	36.55	110
Sept. 6	36.684	506	24.36	189	9.825	283	37.65	95
16	37.190	471	26.25	211	10.108	263	38.60	77
26	37.661	431	28.36	230	10.371	242	39.37	58
Okt. 6	38.092	385	30.66	246	10.613	217	39.95	40
16	38.477	334	33.12	257	10.830	191	40.35	23
26	38.811	276	35.69	264	11.021	163	40.58	7
Nov. 5	39.087	214	38.33	264	11.184	134	40.65	6
14*)	[12] 39.301	147	40.97	258	[12] 11.318	102	40.59	16
24	39.448	78	43.55	247	11.420	69	40.43	25
Dez. 4	39.526	5	46.02	229	11.489	33	40.18	31
14	39.531	68	48.31	205	11.522	2	39.87	35
24	39.463	137	50.36	173	11.520	35	39.52	38
34	39.326		52.09		11.485		39.14	
Mittl. Ort	32.741		18.72		6.927		17.10	
sec δ, tg δ	1.982		+1.712		1.025		+0.225	
a, *a'*	+4.8		+12.6		+3.3		+12.4	
b, *b'*	+0.07		−0.78		+0.01		−0.79	

Tag	127) ε Eridani [1]) AR.		127) Dekl.		131) δ Persei AR.		131) Dekl.	
1932	$3^h\,29^m$		$-9°\,40'$		$3^h\,38^m$		$+47°\,34'$	
Jan. 0	44.559	72	72.09	115	5.557	95	34.74	114
10	44.487	102	73.24	96	5.462	144	35.88	83
20	44.385	126	74.20	74	5.318	185	36.71	51
30	44.259	145	74.94	51	5.133	216	37.22	15
Feb. 9	44.114	156	75.45	25	4.917	235	37.37	21
19	43.958	160	75.70	0	4.682	240	37.16	55
29	43.798	153	75.70	26	4.442	232	36.61	87
März 10	43.645	137	75.44	52	4.210	208	35.74	114
20	43.508	114	74.92	77	4.002	172	34.60	137
30	43.394	82	74.15	103	3.830	125	33.23	152
Apr. 9	43.312	44	73.12	128	3.705	68	31.71	160
19	43.268	1	71.84	150	3.637	5	30.11	161
29	43.267	43	70.34	171	3.632	61	28.50	155
Mai 9	43.310	89	68.63	189	3.693	127	26.95	142
19	43.399	134	66.74	204	3.820	192	25.53	125
29	43.533	176	64.70	214	4.012	250	24.28	102
Juni 8	43.709	213	62.56	220	4.262	304	23.26	77
18	43.922	245	60.36	219	4.566	350	22.49	47
28	44.167	271	58.17	214	4.916	385	22.02	18
Juli 8	44.438	289	56.03	202	5.301	413	21.84	12
18	44.727	302	54.01	185	5.714	431	21.96	41
28	45.029	307	52.16	161	6.145	441	22.37	69
Aug. 7	45.336	306	50.55	133	6.586	442	23.06	94
17	45.642	299	49.22	102	7.028	435	24.00	118
27	45.941	287	48.20	67	7.463	422	25.18	138
Sept. 6	46.228	270	47.53	31	7.885	403	26.56	156
16	46.498	250	47.22	6	8.288	379	28.12	170
26	46.748	227	47.28	41	8.667	351	29.82	182
Okt. 6	46.975	202	47.69	74	9.018	319	31.64	190
16	47.177	174	48.43	101	9.337	283	33.54	196
26	47.351	144	49.44	125	9.620	243	35.50	198
Nov. 5	47.495	114	50.69	141	9.863	199	37.48	197
14*)	[13] 47.609	82	52.10	150	[15] 10.062	151	39.45	192
24	47.691	48	53.60	154	10.213	100	41.37	183
Dez. 4	47.739	14	55.14	151	10.313	46	43.20	169
14	47.753	20	56.65	142	10.359	8	44.89	151
24	47.733	53	58.07	128	10.351	63	46.40	129
34	47.680		59.35		10.288		47.69	
Mittl. Ort	43.542		75.03		4.449		18.11	
sec δ, tg δ	1.014		−0.171		1.482		+1.094	
a, *a'*	+2.9		+12.2		+4.3		+11.6	
b, *b'*	−0.01		−0.79		+0.04		−0.81	

[1]) Die jährliche Parallaxe (0.″32) ist bereits berücksichtigt

*) Bei Stern 131) lies Nov. 15

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Tag	134) ν Persei AR.		134) ν Persei Dekl.		138) 5 H. Camelop. AR.		138) 5 H. Camelop. Dekl.		141) β Reticuli AR.		141) β Reticuli Dekl.		139) η Tauri AR.		139) η Tauri Dekl.	
1932	$3^h\ 40^m$		$+42°\ 21'$		$3^h\ 43^m$		$+71°\ 7'$		$3^h\ 43^m$		$-65°\ 0'$		$3^h\ 43^m$		$+23°\ 53'$	
Jan. 0	35.067	78	70.42	93	11.00	29	50.35	210	23.48	37	80.97	203	27.263	49	57.81	12
10	34.989	122	71.35	66	10.71	39	52.45	168	23.11	43	83.00	152	27.214	86	57.93	0
20	34.867	161	72.01	38	10.32	47	54.13	119	22.68	47	84.52	97	27.128	118	57.93	10
30	34.706	191	72.39	8	9.85	53	55.32	67	22.21	50	85.49	39	27.010	143	57.83	22
Feb. 9	34.515	209	72.47	22	9.32	57	55.99	12	21.71	52	85.88	19	26.867	159	57.61	32
19	34.306	215	72.25	52	8.75	57	56.11	43	21.19	51	85.69	75	26.708	166	57.29	42
29	34.091	208	71.73	79	8.18	55	55.68	95	20.68	50	84.94	129	26.542	162	56.87	50
März 10	33.883	188	70.94	102	7.63	50	54.73	143	20.18	47	83.65	180	26.380	147	56.37	55
20	33.695	156	69.92	119	7.13	43	53.30	182	19.71	42	81.85	226	26.233	123	55.82	57
30	33.539	113	68.73	131	6.70	33	51.48	215	19.29	36	79.59	266	26.110	88	55.25	55
April 9	33.426	61	67.42	137	6.37	21	49.33	238	18.93	29	76.93	300	26.022	47	54.70	49
19	33.365	4	66.05	136	6.16	9	46.95	252	18.64	21	73.93	328	25.975	1	54.21	39
29	33.361	57	64.69	128	6.07	3	44.43	255	18.43	13	70.65	349	25.974	49	53.82	25
Mai 9	33.418	118	63.41	115	6.10	17	41.88	250	18.30	3	67.16	362	26.023	100	53.57	10
19	33.536	178	62.26	98	6.27	30	39.38	236	18.27	6	63.54	366	26.123	149	53.47	8
29	33.714	232	61.28	76	6.57	42	37.02	214	18.33	15	59.88	362	26.272	193	53.55	27
Juni 8	33.946	281	60.52	51	6.99	52	34.88	185	18.48	23	56.26	350	26.465	234	53.82	46
18	34.227	323	60.01	25	7.51	62	33.03	152	18.71	32	52.76	328	26.699	269	54.28	64
28	34.550	357	59.76	2	8.13	70	31.51	114	19.03	39	49.48	299	26.968	298	54.92	80
Juli 8	34.907	383	59.78	28	8.83	76	30.37	74	19.42	45	46.49	260	27.266	319	55.72	95
18	35.290	399	60.06	54	9.59	80	29.63	32	19.87	50	43.89	214	27.585	332	56.67	105
28	35.689	408	60.60	77	10.39	83	29.31	10	20.37	53	41.75	162	27.917	339	57.72	112
Aug. 7	36.097	408	61.37	99	11.22	84	29.41	52	20.90	56	40.13	105	28.256	340	58.84	117
17	36.505	403	62.36	117	12.06	84	29.93	94	21.46	56	39.08	44	28.596	335	60.01	119
27	36.908	391	63.53	133	12.90	82	30.87	132	22.02	54	38.64	20	28.931	324	61.20	115
Sept. 6	37.299	373	64.86	145	13.72	79	32.19	168	22.56	52	38.84	82	29.255	310	62.35	111
16	37.672	352	66.31	156	14.51	74	33.87	202	23.08	48	39.66	142	29.565	292	63.46	103
26	38.024	327	67.87	163	15.25	69	35.89	231	23.56	43	41.08	198	29.857	271	64.49	95
Okt. 6	38.351	297	69.50	168	15.94	62	38.20	256	23.99	36	43.06	246	30.128	248	65.44	86
16	38.648	265	71.18	170	16.56	54	40.76	277	24.35	28	45.52	286	30.376	221	66.30	76
26	38.913	229	72.88	170	17.10	45	43.53	293	24.63	20	48.38	315	30.597	194	67.06	66
Nov. 5	39.142	190	74.58	168	17.55	36	46.46	302	24.83	11	51.53	331	30.791	162	67.72	58
15	39.332	146	76.26	162	17.91	24	49.48	303	24.94	1	54.84	335	30.953	129	68.30	49
24	[16]39.478	101	77.88	153	[16]18.15	13	52.51	297	[17]24.95	7	58.19	327	[17]31.082	93	68.79	40
Dez. 4	39.579	52	79.41	141	18.28	2	55.48	284	24.88	17	61.46	307	31.175	54	69.19	33
14	39.631	2	80.82	124	18.30	11	58.32	262	24.71	25	64.53	276	31.229	14	69.52	24
24	39.633	48	82.06	105	18.19	22	60.94	231	24.46	33	67.29	235	31.243	25	69.76	14
34	39.585		83.11		17.97		63.25		24.13		69.64		31.218		69.90	
Mittl. Ort	34.007		54.84		8.82		30.51		20.41		75.02		26.294		46.25	
sec δ, tg δ	1.353		+0.912		3.091		+2.925		2.368		−2.147		1.094		+0.443	
a, a'	+4.1		+11.5		+6.3		+11.3		+0.7		+11.3		+3.6		+11.2	
b, b'	+0.03		−0.82		+0.11		−0.83		−0.08		−0.83		+0.02		−0.83	

Tag	140) τ^6 Eridani AR.	Δ	Dekl.	Δ	143) g Eridani AR.	Δ	Dekl.	Δ	146) γ Hydri AR.	Δ	Dekl.	Δ	144) ζ Persei AR.	Δ	Dekl.	Δ
1932	$3^h 43^m$		$-23° 26'$		$3^h 46^m$		$-36° 23'$		$3^h 48^m$		$-74° 26'$		$3^h 49^m$		$+31° 40'$	
	s		"		s		"		s		"		s		"	
Jan. 0	56.506	83	57.76	165	56.050	119	81.19	193	21.23	65	58.52	201	52.193	51	72.51	48
10	56.423	116	59.41	135	55.931	155	83.12	154	20.58	73	60.53	148	52.142	91	72.99	32
20	56.307	144	60.76	101	55.776	185	84.66	111	19.85	81	62.01	93	52.051	127	73.31	14
30	56.163	166	61.77	65	55.591	208	85.77	66	19.04	86	62.94	34	51.924	155	73.45	5
Feb. 9	55.997	180	62.42	28	55.383	223	86.43	19	18.18	87	63.28	24	51.769	173	73.40	24
19	55.817	185	62.70	9	55.160	228	86.62	27	17.31	87	63.04	81	51.596	182	73.16	42
29	55.632	181	62.61	47	54.932	223	86.35	73	16.44	84	62.23	135	51.414	179	72.74	58
März 10	55.451	167	62.14	83	54.709	207	85.62	117	15.60	79	60.88	184	51.235	164	72.16	72
20	55.284	145	61.31	118	54.502	183	84.45	158	14.81	72	59.04	230	51.071	137	71.44	81
30	55.139	114	60.13	150	54.319	149	82.87	195	14.09	64	56.74	270	50.934	101	70.63	85
Apr. 9	55.025	76	58.63	181	54.170	109	80.92	229	13.45	52	54.04	303	50.833	58	69.78	86
19	54.949	33	56.82	208	54.061	61	78.63	259	12.93	41	51.01	330	50.775	8	68.92	80
29	54.916	13	54.74	230	54.000	11	76.04	283	12.52	27	47.71	349	50.767	45	68.12	70
Mai 9	54.929	61	52.44	250	53.989	41	73.21	300	12.25	14	44.22	361	50.812	98	67.42	57
19	54.990	108	49.94	262	54.030	94	70.21	312	12.11	0	40.61	365	50.910	151	66.85	40
29	55.098	153	47.32	271	54.124	145	67.09	316	12.11	14	36.96	360	51.061	200	66.45	21
Juni 8	55.251	194	44.61	271	54.269	192	63.93	313	12.25	28	33.36	347	51.261	244	66.24	0
18	55.445	231	41.90	266	54.461	234	60.80	302	12.53	40	29.89	324	51.505	281	66.24	21
28	55.676	262	39.24	252	54.695	270	57.78	282	12.93	52	26.65	294	51.786	312	66.45	41
Juli 8	55.938	286	36.72	233	54.965	299	54.96	255	13.45	63	23.71	255	52.098	336	66.86	60
18	56.224	302	34.39	206	55.264	321	52.41	222	14.08	71	21.16	208	52.434	351	67.46	77
28	56.526	313	32.33	174	55.585	335	50.19	180	14.79	77	19.08	157	52.785	361	68.23	91
Aug. 7	56.839	316	30.59	135	55.920	342	48.39	133	15.56	81	17.51	98	53.146	362	69.14	103
17	57.155	313	29.24	93	56.262	340	47.06	83	16.37	82	16.53	37	53.508	358	70.17	111
27	57.468	304	28.31	47	56.602	331	46.23	28	17.19	82	16.16	25	53.866	348	71.28	117
Sept. 6	57.772	289	27.84	0	56.933	316	45.95	27	18.01	78	16.41	88	54.214	334	72.45	120
16	58.061	269	27.84	47	57.249	294	46.22	81	18.79	72	17.29	148	54.548	316	73.65	121
26	58.330	247	28.31	91	57.543	268	47.03	131	19.51	64	18.77	203	54.864	296	74.86	119
Okt. 6	58.577	221	29.22	132	57.811	237	48.34	177	20.15	53	20.80	252	55.160	271	76.05	116
16	58.798	191	30.54	166	58.048	202	50.11	216	20.68	40	23.32	291	55.431	244	77.21	112
26	58.989	159	32.20	195	58.250	163	52.27	246	21.08	27	26.23	318	55.675	214	78.33	107
Nov. 5	59.148	124	34.15	214	58.413	122	54.73	267	21.35	12	29.41	334	55.889	181	79.40	102
15	59.272	89	36.29	225	58.535	80	57.40	277	21.47	3	32.75	337	56.070	144	80.42	95
24	[17] 59.361	52	38.54	227	[17] 58.615	35	60.17	277	[18] 21.44	18	36.12	328	[18] 56.214	105	81.37	87
Dez. 4	59.413	13	40.81	219	58.650	10	62.94	265	21.26	33	39.40	307	56.319	63	82.24	79
14	59.426	25	43.00	205	58.640	53	65.59	245	20.93	46	42.47	274	56.382	20	83.03	68
24	59.401	62	45.05	184	58.587	95	68.04	217	20.47	58	45.21	233	56.402	24	83.71	54
34	59.339		46.89		58.492		70.21		19.89		47.54		56.378		84.25	
Mittl. Ort	55.262		58.24		54.546		79.29		16.31		52.40		51.159		59.29	
sec δ, tg δ	1.090		−0.434		1.242		−0.737		3.730		−3.593		1.175		+0.617	
a, a'	+2.6		+11.2		+2.2		+11.0		−1.0		+10.9		+3.8		+10.8	
b, b'	−0.02		−0.83		−0.03		−0.84		−0.13		−0.84		+0.02		−0.84	

Scheinbare Sternörter 1932

Tag	145) 9 H. Camelop.				147) ε Persei				148) ξ Persei				149) γ Eridani			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	3h 51m		+60° 54′		3h 53m		+39° 48′		3h 54m		+35° 35′		3h 54m		−13° 41′	
	s		″		s		″		s		″		s		″	
Jan. 0	20.99	14	59.99	178	18.177	60	68.82	87	33.942	52	62.85	68	52.499	58	60.34	142
10	20.85	22	61.77	142	18.117	105	69.69	65	33.890	94	63.53	49	52.441	92	61.76	119
20	20.63	28	63.19	100	18.012	145	70.34	40	33.796	133	64.02	28	52.349	122	62.95	95
30	20.35	32	64.19	55	17.867	176	70.74	13	33.663	164	64.30	6	52.227	145	63.90	67
Feb. 9	20.03	35	64.74	8	17.691	198	70.87	15	33.499	183	64.36	17	52.082	161	64.57	38
19	19.68	36	64.82	38	17.493	207	70.72	41	33.316	193	64.19	40	51.921	168	64.95	9
29	19.32	35	64.44	82	17.286	203	70.31	65	33.123	190	63.79	60	51.753	167	65.04	21
März 10	18.97	32	63.62	123	17.083	186	69.66	87	32.933	175	63.19	78	51.586	156	64.83	51
20	18.65	28	62.39	158	16.897	158	68.79	104	32.758	148	62.41	90	51.430	135	64.32	79
30	18.37	21	60.81	185	16.739	119	67.75	116	32.610	111	61.51	99	51.295	107	63.53	107
Apr. 9	18.16	13	58.96	203	16.620	70	66.59	121	32.499	66	60.52	102	51.188	71	62.46	134
19	18.03	5	56.93	214	16.550	16	65.38	121	32.433	15	59.50	100	51.117	30	61.12	159
29	17.98	3	54.79	216	16.534	42	64.17	115	32.418	40	58.50	93	51.087	14	59.53	182
Mai 9	18.01	13	52.63	210	16.576	100	63.02	104	32.458	96	57.57	80	51.101	60	57.71	201
19	18.14	21	50.53	196	16.676	158	61.98	88	32.554	151	56.77	64	51.161	105	55.70	216
29	18.35	29	48.57	176	16.834	212	61.10	68	32.705	202	56.13	45	51.266	149	53.54	227
Juni 8	18.64	37	46.81	149	17.046	261	60.42	46	32.907	248	55.68	25	51.415	188	51.27	232
18	19.01	44	45.32	120	17.307	303	59.96	23	33.155	288	55.43	2	51.603	223	48.95	232
28	19.45	48	44.12	86	17.610	337	59.73	1	33.443	321	55.41	20	51.826	253	46.63	226
Juli 8	19.93	53	43.26	51	17.947	363	59.74	25	33.764	346	55.61	41	52.079	276	44.37	213
18	20.46	56	42.75	15	18.310	382	59.99	49	34.110	364	56.02	60	52.355	293	42.24	194
28	21.02	58	42.60	22	18.692	393	60.48	69	34.474	373	56.62	78	52.648	303	40.30	169
Aug. 7	21.60	59	42.82	57	19.085	395	61.17	88	34.847	377	57.40	93	52.951	306	38.61	139
17	22.19	58	43.39	91	19.480	392	62.05	104	35.224	373	58.33	105	53.257	305	37.22	105
27	22.77	58	44.30	122	19.872	383	63.09	117	35.597	364	59.38	114	53.562	297	36.17	66
Sept. 6	23.35	55	45.52	152	20.255	368	64.26	129	35.961	351	60.52	122	53.859	285	35.51	27
16	23.90	52	47.04	179	20.623	350	65.55	137	36.312	333	61.74	126	54.144	269	35.24	14
26	24.42	49	48.83	202	20.973	327	66.92	143	36.645	312	63.00	128	54.413	249	35.38	53
Okt. 6	24.91	44	50.85	221	21.300	301	68.35	147	36.957	287	64.28	129	54.662	226	35.91	90
16	25.35	40	53.06	237	21.601	271	69.82	148	37.244	259	65.57	128	54.888	200	36.81	121
26	25.75	34	55.43	249	21.872	237	71.30	149	37.503	228	66.85	126	55.088	172	38.02	147
Nov. 5	26.09	28	57.92	256	22.109	201	72.79	147	37.731	193	68.11	122	55.260	142	39.49	167
15	26.37	21	60.48	256	22.310	160	74.26	143	37.924	156	69.33	117	55.402	109	41.16	179
24	[19] 26.58	13	63.04	252	[19] 22.470	116	75.69	136	[19] 38.080	114	70.50	111	[19] 55.511	74	42.95	183
Dez. 4	26.71	6	65.56	239	22.586	69	77.05	126	38.194	69	71.61	101	55.585	37	44.78	181
14	26.77	2	67.95	221	22.655	19	78.31	114	38.263	23	72.62	90	55.622	1	46.59	171
24	26.75	10	70.16	195	22.674	30	79.45	96	38.286	23	73.52	77	55.623	37	48.30	157
34	26.65		72.11		22.644		80.41		38.263		74.29		55.586		49.87	
Mittl. Ort	19.39		41.67		17.055		54.03		32.852		48.92		51.336		63.35	
sec δ, tg δ	2.057		+1.797		1.302		+0.834		1.230		+0.716		1.029		−0.244	
a, *a′*	+5.1		+10.7		+4.0		+10.5		+3.9		+10.4		+2.8		+10.4	
b, *b′*	+0.06		− 0.85		+0.03		− 0.85		+0.02		− 0.85		−0.01		− 0.85	

Tag	150) λ Tauri AR.		150) λ Tauri Dekl.		151) ν Tauri AR.		151) ν Tauri Dekl.	
1932	3h 56m		+12° 17′		3h 59m		+5° 48′	
Jan. 0	55.623	37	67.01	39	33.266	37	13.90	69
10	55.586	73	66.62	39	33.229	72	13.21	62
20	55.513	104	66.23	38	33.157	104	12.59	54
30	55.409	130	65.85	36	33.053	129	12.05	46
Feb. 9	55.279	148	65.49	34	32.924	146	11.59	37
19	55.131	157	65.15	30	32.778	155	11.22	27
29	54.974	156	64.85	27	32.623	155	10.95	15
März 10	54.818	144	64.58	21	32.468	145	10.80	3
20	54.674	123	64.37	12	32.323	124	10.77	10
30	54.551	94	64.25	2	32.199	96	10.87	25
Apr. 9	54.457	57	64.23	9	32.103	60	11.12	41
19	54.400	14	64.32	24	32.043	19	11.53	59
29	54.386	31	64.56	40	32.024	25	12.12	76
Mai 9	54.417	78	64.96	56	32.049	71	12.88	93
19	54.495	124	65.52	73	32.120	116	13.81	110
29	54.619	168	66.25	89	32.236	159	14.91	125
Juni 8	54.787	207	67.14	103	32.395	198	16.16	137
18	54.994	241	68.17	114	32.593	233	17.53	146
28	55.235	270	69.31	124	32.826	260	18.99	150
Juli 8	55.505	291	70.55	129	33.086	282	20.49	152
18	55.796	306	71.84	131	33.368	298	22.01	148
28	56.102	315	73.15	127	33.666	307	23.49	139
Aug. 7	56.417	317	74.42	121	33.973	310	24.88	126
17	56.734	315	75.63	111	34.283	308	26.14	110
27	57.049	307	76.74	96	34.591	300	27.24	89
Sept. 6	57.356	296	77.70	80	34.891	290	28.13	67
16	57.652	280	78.50	63	35.181	275	28.80	43
26	57.932	261	79.13	44	35.456	257	29.23	18
Okt. 6	58.193	241	79.57	25	35.713	236	29.41	4
16	58.434	218	79.82	9	35.949	213	29.37	26
26	58.652	192	79.91	6	36.162	188	29.11	43
Nov. 5	58.844	163	79.85	18	36.350	159	28.68	58
15	59.007	132	79.67	28	36.509	129	28.10	69
24	59.139	98	79.39	35	36.638	96	27.41	75
Dez. 4	59.237	62	79.04	39	36.734	60	26.66	78
14	59.299	24	78.65	41	36.794	23	25.88	77
24	59.323	14	78.24	42	36.817	14	25.11	74
34	59.309		77.82		36.803		24.37	
Mittl. Ort	54.593		58.11		32.211		6.44	
sec δ, tg δ	1.024		+0.218		1.005		+0.102	
a, *a′*	+3.3		+10.3		+3.2		+10.1	
b, *b′*	+0.01		− 0.86		0.00		− 0.87	

Tag	152) c Persei AR.		152) c Persei Dekl.		154) o¹ Eridani AR.		154) o¹ Eridani Dekl.	
1932	4h 3m		+47° 31′		4h 8m		−7° 0′	
Jan. 0	44.356	66	73.39	127	33.847	40	44.65	123
10	44.290	120	74.66	101	33.807	76	45.88	107
20	44.170	167	75.67	72	33.731	108	46.95	87
30	44.003	205	76.39	38	33.623	134	47.82	66
Feb. 9	43.798	231	76.77	4	33.489	152	48.48	43
19	43.567	243	76.81	30	33.337	163	48.91	20
29	43.324	241	76.51	63	33.174	163	49.11	4
März 10	43.083	224	75.88	93	33.011	154	49.07	28
20	42.859	194	74.95	117	32.857	136	48.79	52
30	42.665	151	73.78	137	32.721	110	48.27	76
Apr. 9	42.514	97	72.41	149	32.611	75	47.51	100
19	42.417	37	70.92	155	32.536	36	46.51	122
29	42.380	27	69.37	154	32.500	8	45.29	143
Mai 9	42.407	93	67.83	147	32.508	53	43.86	162
19	42.500	158	66.36	133	32.561	98	42.24	178
29	42.658	220	65.03	116	32.659	140	40.46	191
Juni 8	42.878	275	63.87	94	32.799	180	38.55	200
18	43.153	324	62.93	69	32.979	216	36.55	203
28	43.477	364	62.24	42	33.195	245	34.52	201
Juli 8	43.841	397	61.82	15	33.440	269	32.51	193
18	44.238	420	61.67	11	33.709	286	30.58	180
28	44.658	435	61.78	38	33.995	297	28.78	160
Aug. 7	45.093	441	62.16	63	34.292	303	27.18	137
17	45.534	440	62.79	87	34.595	303	25.81	109
27	45.974	433	63.66	107	34.898	297	24.72	76
Sept. 6	46.407	419	64.73	125	35.195	287	23.96	41
16	46.826	400	65.98	141	35.482	274	23.55	6
26	47.226	376	67.39	155	35.756	257	23.49	28
Okt. 6	47.602	349	68.94	166	36.013	236	23.77	61
16	47.951	316	70.60	174	36.249	213	24.38	91
26	48.267	279	72.34	180	36.462	187	25.29	115
Nov. 5	48.546	237	74.14	184	36.649	159	26.44	133
15	48.783	190	75.98	183	36.808	127	27.77	146
24	48.973	138	77.81	178	36.935	94	29.23	152
Dez. 4	49.111	84	79.59	170	37.029	57	30.75	152
14	49.195	27	81.29	157	37.086	20	32.27	146
24	49.222	32	82.86	139	37.106	18	33.73	135
34	49.190		84.25		37.088		35.08	
Mittl. Ort	43.042		57.53		32.696		49.50	
sec δ, tg δ	1.481		+1.093		1.008		−0.123	
a, *a′*	+4.3		+9.7		+2.9		+9.4	
b, *b′*	+0.04		−0.87		0.00		−0.88	

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Tag	155) α Horologii AR.		155) α Horologii Dekl.		156) α Reticuli AR.		156) α Reticuli Dekl.		160) υ^4 Eridani AR.		160) υ^4 Eridani Dekl.		162) δ Tauri AR.		162) δ Tauri Dekl.	
1932	$4^h\ 11^m$		$-42°\ 27'$		$4^h\ 13^m$		$-62°\ 38'$		$4^h\ 15^m$		$-33°\ 57'$		$4^h\ 19^m$		$+17°\ 23'$	
Jan. 0	46.499	125	42.33	226	35.53	29	40.64	241	20.675	89	48.58	213	1.755	20	13.82	16
10	46.374	169	44.59	186	35.24	36	43.05	194	20.586	130	50.71	177	1.735	59	13.66	18
20	46.205	205	46.45	142	34.88	40	44.99	142	20.456	165	52.48	138	1.676	96	13.48	20
30	46.000	234	47.87	93	34.48	45	46.41	88	20.291	193	53.86	95	1.580	126	13.28	22
Feb. 9	45.766	255	48.80	44	34.03	48	47.29	30	20.098	212	54.81	50	1.454	148	13.06	25
19	45.511	264	49.24	7	33.55	48	47.59	27	19.886	224	55.31	5	1.306	161	12.81	27
29	45.247	264	49.17	56	33.07	48	47.32	81	19.662	225	55.36	40	1.145	164	12.54	28
März 10	44.983	252	48.61	103	32.59	46	46.51	134	19.437	214	54.96	84	0.981	156	12.26	28
20	44.731	228	47.58	149	32.13	42	45.17	183	19.223	195	54.12	126	0.825	137	11.98	25
30	44.503	197	46.09	190	31.71	37	43.34	227	19.028	166	52.86	165	0.688	110	11.73	21
Apr. 9	44.306	156	44.19	228	31.34	32	41.07	267	18.862	129	51.21	200	0.578	75	11.52	14
19	44.150	109	41.91	261	31.02	24	38.40	300	18.733	85	49.21	232	0.503	32	11.38	4
29	44.041	56	39.30	288	30.78	17	35.40	326	18.648	38	46.89	259	0.471	13	11.34	8
Mai 9	43.985	0	36.42	308	30.61	9	32.14	345	18.610	12	44.30	280	0.484	60	11.42	21
19	43.985	55	33.34	322	30.52	0	28.69	357	18.622	64	41.50	296	0.544	108	11.63	36
29	44.040	111	30.12	329	30.52	9	25.12	360	18.686	114	38.54	304	0.652	153	11.99	51
Juni 8	44.151	163	26.83	327	30.61	16	21.52	354	18.800	161	35.50	306	0.805	194	12.50	65
18	44.314	212	23.56	318	30.77	24	17.98	339	18.961	204	32.44	299	0.999	231	13.15	79
28	44.526	255	20.38	300	31.01	32	14.59	316	19.165	242	29.45	285	1.230	262	13.94	89
Juli 8	44.781	290	17.38	273	31.33	38	11.43	283	19.407	274	26.60	262	1.492	286	14.83	98
18	45.071	320	14.65	238	31.71	43	8.60	243	19.681	299	23.98	232	1.778	305	15.81	102
28	45.391	342	12.27	197	32.14	47	6.17	195	19.980	317	21.66	196	2.083	317	16.83	103
Aug. 7	45.733	354	10.30	149	32.61	50	4.22	140	20.297	327	19.70	152	2.400	322	17.86	102
17	46.087	359	8.81	95	33.11	52	2.82	81	20.624	332	18.18	103	2.722	323	18.88	96
27	46.446	356	7.86	39	33.63	52	2.01	18	20.956	329	17.15	51	3.045	319	19.84	87
Sept. 6	46.802	345	7.47	20	34.15	50	1.83	45	21.285	319	16.64	3	3.364	311	20.71	77
16	47.147	328	7.67	78	34.65	47	2.28	108	21.604	304	16.67	57	3.675	298	21.48	64
26	47.475	303	8.45	133	35.12	44	3.36	168	21.908	284	17.24	110	3.973	283	22.12	51
Okt. 6	47.778	273	9.78	184	35.56	38	5.04	221	22.192	257	18.34	158	4.256	265	22.63	36
16	48.051	236	11.62	228	35.94	32	7.25	267	22.449	228	19.92	200	4.521	243	22.99	24
26	48.287	196	13.90	263	36.26	24	9.92	303	22.677	193	21.92	234	4.764	219	23.23	13
Nov. 5	48.483	152	16.53	288	36.50	17	12.95	327	22.870	156	24.26	260	4.983	191	23.36	3
15	48.635	103	19.41	303	36.67	9	16.22	340	23.026	115	26.86	275	5.174	160	23.39	4
24*)	[24] 48.738	54	22.44	306	[24] 36.76	0	19.62	340	[25] 23.141	71	29.61	279	[26] 5.334	125	23.35	10
Dez. 4	48.792	3	25.50	297	36.76	9	23.02	327	23.212	27	32.40	273	5.459	87	23.25	13
14	48.795	48	28.47	278	36.67	17	26.29	303	23.239	19	35.13	258	5.546	47	23.12	16
24	48.747	97	31.25	250	36.50	25	29.32	269	23.220	63	37.71	234	5.593	6	22.96	17
34	48.650		33.75		36.25		32.01		23.157		40.05		5.599		22.79	
Mittl. Ort	44.750		41.02		32.60		37.31		19.144		48.74		0.629		3.88	
sec δ, tg δ	1.355		−0.915		2.176		−1.933		1.206		−0.674		1.048		+0.313	
a, a'	+2.0		+9.1		+0.8		+9.0		+2.3		+8.8		+3.5		+8.5	
b, b'	−0.03		−0.89		−0.06		−0.89		−0.02		−0.90		+0.01		−0.90	

*) Bei Stern 160) und 162) lies Nov. 25

Tag	164) ε Tauri AR.		Dekl.		168) α Tauri AR.		Dekl.		171) α Doradus AR.		Dekl.		169) ν Eridani AR.		Dekl.	
1932	$4^h 24^m$		$+19° 1'$		$4^h 32^m$		$+16° 22'$		$4^h 32^m$		$-55° 10'$		$4^h 32^m$		$-3° 29'$	
	s		"		s		"		s		"		s		"	
Jan. 0	39.755	15	62.10	8	2.152	9	36.16	22	33.980	184	66.68	260	56.406	19	18.87	118
10	39.740	56	62.02	10	2.143	50	35.94	22	33.796	242	69.28	218	56.387	58	20.05	103
20	39.684	93	61.92	14	2.093	88	35.72	22	33.554	291	71.46	170	56.329	93	21.08	87
30	39.591	125	61.78	17	2.005	121	35.50	23	33.263	331	73.16	119	56.236	124	21.95	68
Feb. 9	39.466	148	61.61	21	1.884	145	35.27	23	32.932	359	74.35	64	56.112	146	22.63	49
19	39.318	163	61.40	25	1.739	160	35.04	24	32.573	374	74.99	9	55.966	160	23.12	29
29	39.155	167	61.15	28	1.579	165	34.80	25	32.199	376	75.08	46	55.806	166	23.41	8
März 10	38.988	159	60.87	29	1.414	160	34.55	23	31.823	366	74.62	98	55.640	160	23.49	13
20	38.829	141	60.58	28	1.254	143	34.32	20	31.457	342	73.64	147	55.480	145	23.36	34
30	38.688	115	60.30	27	1.111	118	34.12	16	31.115	306	72.17	194	55.335	122	23.02	55
Apr. 9	38.573	79	60.03	21	0.993	84	33.96	9	30.809	259	70.23	235	55.213	90	22.47	77
19	38.494	38	59.82	13	0.909	44	33.87	1	30.550	204	67.88	271	55.123	53	21.70	97
29	38.456	9	59.69	2	0.865	1	33.88	11	30.346	142	65.17	302	55.070	11	20.73	117
Mai 9	38.465	56	59.67	11	0.866	48	33.99	25	30.204	76	62.15	325	55.059	33	19.56	136
19	38.521	104	59.78	25	0.914	94	34.24	38	30.128	6	58.90	341	55.092	78	18.20	152
29	38.625	149	60.03	40	1.008	140	34.62	52	30.122	63	55.49	349	55.170	121	16.68	165
Juni 8	38.774	191	60.43	53	1.148	182	35.14	65	30.185	132	52.00	349	55.291	162	15.03	175
18	38.965	229	60.96	67	1.330	218	35.79	78	30.317	195	48.51	340	55.453	198	13.28	180
28	39.194	260	61.63	78	1.548	251	36.57	87	30.512	255	45.11	321	55.651	229	11.48	181
Juli 8	39.454	286	62.41	87	1.799	277	37.44	93	30.767	307	41.90	293	55.880	255	9.67	176
18	39.740	305	63.28	93	2.076	296	38.37	98	31.074	352	38.97	259	56.135	275	7.91	166
28	40.045	318	64.21	96	2.372	310	39.35	99	31.426	387	36.38	214	56.410	289	6.25	151
Aug. 7	40.363	325	65.17	95	2.682	318	40.34	95	31.813	413	34.24	163	56.699	298	4.74	131
17	40.688	326	66.12	91	3.000	321	41.29	88	32.226	429	32.61	107	56.997	301	3.43	105
27	41.014	322	67.03	84	3.321	318	42.17	80	32.655	432	31.54	46	57.298	299	2.38	77
Sept. 6	41.336	315	67.87	75	3.639	311	42.97	67	33.087	427	31.08	16	57.597	294	1.61	46
16	41.651	304	68.62	64	3.950	302	43.64	54	33.514	410	31.24	79	57.891	283	1.15	13
26	41.955	289	69.26	52	4.252	289	44.18	39	33.924	383	32.03	140	58.174	270	1.02	19
Okt. 6	42.244	271	69.78	40	4.541	272	44.57	25	34.307	346	33.43	196	58.444	254	1.21	50
16	42.515	251	70.18	29	4.813	252	44.82	12	34.653	302	35.39	246	58.698	234	1.71	78
26	42.766	226	70.47	19	5.065	229	44.94	0	34.955	249	37.85	285	58.932	210	2.49	102
Nov. 5	42.992	199	70.66	10	5.294	202	44.94	9	35.204	190	40.70	315	59.142	183	3.51	121
15	43.191	168	70.76	4	5.496	172	44.85	16	35.394	126	43.85	333	59.325	154	4.72	134
25	43.359	132	70.80	1	5.668	137	44.69	20	35.520	58	47.18	338	59.479	120	6.06	140
Dez. 4	[27] 43.491	94	70.79	4	[29] 5.805	100	44.49	23	[29] 35.578	11	50.56	331	[29] 59.599	84	7.46	141
14	43.585	54	70.75	7	5.905	59	44.26	25	35.567	80	53.87	314	59.683	45	8.87	138
24	43.639	11	70.68	10	5.964	17	44.01	25	35.487	146	57.01	285	59.728	5	10.25	128
34	43.650		70.58		5.981		43.76		35.341		59.86		59.733		11.53	
Mittl. Ort	38.602		51.89		0.976		26.49		31.610		65.44		55.201		24.93	
sec δ, tg δ	1.058		+0.345		1.042		+0.294		1.752		−1.438		1.002		−0.061	
a, *a'*	+3.5		+8.1		+3.4		+7.5		+1.3		+7.5		+3.0		+7.4	
b, *b'*	+0.01		−0.91		+0.01		−0.93		−0.04		−0.93		0.00		−0.93	

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Tag	172) 53 Eridani AR.		172) 53 Eridani Dekl.		174) τ Tauri AR.		174) τ Tauri Dekl.		173) Grb 848 AR.		173) Grb 848 Dekl.		175) 4 Camelop. AR.		175) 4 Camelop. Dekl.	
1932	$4^h 35^m$		−14° 25′		$4^h 38^m$		+22° 49′		$4^h 39^m$		+75° 49′		$4^h 42^m$		+56° 38′	
Jan. 0	5.176	31	64.97	166	10.901	3	51.38	12	43.06	23	32.30	264	21.744	43	34.12	187
10	5.145	70	66.63	144	10.898	48	51.50	8	42.83	38	34.94	232	21.701	115	35.99	162
20	5.075	106	68.07	118	10.850	88	51.58	3	42.45	53	37.26	191	21.586	182	37.61	132
30	4.969	136	69.25	90	10.762	122	51.61	3	41.92	64	39.17	144	21.404	238	38.93	97
Feb. 9	4.833	158	70.15	61	10.640	149	51.58	10	41.28	72	40.61	90	21.166	280	39.90	58
19	4.675	173	70.76	30	10.491	167	51.48	18	40.56	77	41.51	34	20.886	307	40.48	16
29	4.502	179	71.06	0	10.324	173	51.30	25	39.79	78	41.85	22	20.579	316	40.64	25
März 10	4.323	173	71.06	32	10.151	168	51.05	31	39.01	76	41.63	77	20.263	307	40.39	66
20	4.150	159	70.74	61	9.983	152	50.74	36	38.25	69	40.86	127	19.956	280	39.73	101
30	3.991	135	70.13	90	9.831	126	50.38	36	37.56	60	39.59	172	19.676	238	38.72	134
Apr. 9	3.856	103	69.23	119	9.705	91	50.02	35	36.96	47	37.87	210	19.438	181	37.38	158
19	3.753	66	68.04	145	9.614	50	49.67	30	36.49	33	35.77	238	19.257	114	35.80	177
29	3.687	25	66.59	168	9.564	4	49.37	23	36.16	17	33.39	257	19.143	40	34.03	188
Mai 9	3.662	21	64.91	190	9.560	45	49.14	13	35.99	1	30.82	266	19.103	37	32.15	192
19	3.683	66	63.01	206	9.605	94	49.01	1	35.98	16	28.16	268	19.140	116	30.23	188
29	3.749	109	60.95	220	9.699	140	49.00	12	36.14	33	25.48	259	19.256	191	28.35	179
Juni 8	3.858	151	58.75	227	9.839	183	49.12	26	36.47	48	22.89	244	19.447	263	26.56	163
18	4.009	189	56.48	230	10.022	223	49.38	39	36.95	62	20.45	221	19.710	327	24.93	144
28	4.198	222	54.18	225	10.245	256	49.77	51	37.57	75	18.24	193	20.037	384	23.49	119
Juli 8	4.420	249	51.93	214	10.501	284	50.28	62	38.32	86	16.31	160	20.421	432	22.30	93
18	4.669	272	49.79	197	10.785	306	50.90	70	39.18	95	14.71	124	20.853	469	21.37	65
28	4.941	287	47.82	175	11.091	320	51.60	76	40.13	102	13.47	84	21.322	498	20.72	36
Aug. 7	5.228	297	46.07	145	11.411	329	52.36	78	41.15	107	12.63	43	21.820	517	20.36	6
17	5.525	302	44.62	112	11.740	333	53.14	77	42.22	110	12.20	2	22.337	527	20.30	23
27	5.827	301	43.50	73	12.073	332	53.91	75	43.32	111	12.18	40	22.864	529	20.53	51
Sept. 6	6.128	295	42.77	33	12.405	326	54.66	69	44.43	110	12.58	82	23.393	523	21.04	79
16	6.423	286	42.44	10	12.731	317	55.35	62	45.53	108	13.40	121	23.916	511	21.83	104
26	6.709	272	42.54	50	13.048	304	55.97	54	46.61	103	14.61	158	24.427	491	22.87	128
Okt. 6	6.981	254	43.04	90	13.352	287	56.51	46	47.64	97	16.19	194	24.918	465	24.15	149
16	7.235	232	43.94	125	13.639	268	56.97	38	48.61	88	18.13	226	25.383	432	25.64	169
26	7.467	208	45.19	155	13.907	245	57.35	31	49.49	78	20.39	253	25.815	391	27.33	187
Nov. 5	7.675	180	46.74	177	14.152	218	57.66	26	50.27	66	22.92	276	26.206	342	29.20	200
15	7.855	148	48.51	193	14.370	186	57.92	22	50.93	53	25.68	292	26.548	287	31.20	210
25	8.003	113	50.44	201	14.556	151	58.14	18	51.46	38	28.60	302	26.835	225	33.30	215
Dez. 4	30 8.116	74	52.45	200	30 14.707	111	58.32	16	1 51.84	22	31.62	303	1 27.060	155	35.45	215
14	8.190	35	54.45	194	14.818	68	58.48	14	52.06	4	34.65	295	27.215	80	37.60	208
24	8.225	6	56.39	179	14.886	24	58.62	11	52.10	12	37.60	277	27.295	5	39.68	195
34	8.219		58.18		14.910		58.73		51.98		40.37		27.300		41.63	
Mittl. Ort	3.889		69.21		9.676		40.67		38.92		15.03		19.822		18.72	
sec δ, tg δ	1.033		−0.257		1.085		+0.421		4.082		+3.958		1.818		+1.519	
a, *a′*	+2.8		+7.2		+3.6		+7.0		+8.0		+6.9		+5.0		+6.7	
b, *b′*	−0.01		−0.93		+0.01		−0.94		+0.09		−0.94		+0.03		−0.94	

Tag	178) 9 Camelop. AR.	Δ	Dekl.	Δ	180) π^5 Orionis AR.	Δ	Dekl.	Δ	181) ι Aurigae AR.	Δ	Dekl.	Δ	183) ε Aurigae AR.	Δ	Dekl.	Δ
1932	$4^h 47^m$		+66° 13′		$4^h 50^m$		+2° 19′		$4^h 52^m$		+33° 3′		$4^h 57^m$		+43° 43′	
	s		″		s		″		s		″		s		″	
Jan. 0	19.19	8	63.31	232	43.699	1	57.43	96	35.122	8	48.29	68	6.705	5	41.13	127
10	19.11	18	65.63	204	43.698	41	56.47	85	35.130	43	48.97	60	6.710	54	42.40	112
20	18.93	27	67.67	169	43.657	79	55.62	73	35.087	89	49.57	48	6.656	108	43.52	94
30	18.66	34	69.36	129	43.578	113	54.89	59	34.998	130	50.05	33	6.548	155	44.46	70
Feb. 9	18.32	41	70.65	82	43.465	138	54.30	44	34.868	162	50.38	17	6.393	193	45.16	44
19	17.91	44	71.47	33	43.327	156	53.86	30	34.706	183	50.55	1	6.200	218	45.60	16
29	17.47	45	71.80	16	43.171	165	53.56	15	34.523	193	50.54	19	5.982	230	45.76	14
März 10	17.02	44	71.64	64	43.006	162	53.41	0	34.330	190	50.35	36	5.752	227	45.62	41
20	16.58	41	71.00	109	42.844	150	53.41	16	34.140	175	49.99	51	5.525	210	45.21	67
30	16.17	35	69.91	149	42.694	128	53.57	32	33.965	149	49.48	62	5.315	180	44.54	89
Apr. 9	15.82	27	68.42	181	42.566	99	53.89	49	33.816	113	48.86	71	5.135	140	43.65	107
19	15.55	19	66.61	206	42.467	62	54.38	66	33.703	68	48.15	75	4.995	90	42.58	119
29	15.36	9	64.55	223	42.405	21	55.04	83	33.635	20	47.40	76	4.905	34	41.39	127
Mai 9	15.27	1	62.32	231	42.384	22	55.87	99	33.615	33	46.64	71	4.871	25	40.12	127
19	15.28	12	60.01	231	42.406	66	56.86	114	33.648	85	45.93	63	4.896	86	38.85	123
29	15.40	22	57.70	224	42.472	110	58.00	128	33.733	136	45.30	53	4.982	145	37.62	115
Juni 8	15.62	31	55.46	210	42.582	151	59.28	138	33.869	185	44.77	40	5.127	200	36.47	103
18	15.93	41	53.36	190	42.733	187	60.66	146	34.054	229	44.37	26	5.327	251	35.44	87
28	16.34	48	51.46	164	42.920	220	62.12	148	34.283	266	44.11	11	5.578	296	34.57	69
Juli 8	16.82	55	49.82	135	43.140	247	63.60	148	34.549	299	44.00	4	5.874	333	33.88	51
18	17.37	60	48.47	104	43.387	269	65.08	143	34.848	324	44.04	17	6.207	363	33.37	30
28	17.97	65	47.43	70	43.656	284	66.51	131	35.172	342	44.21	30	6.570	387	33.07	11
Aug. 7	18.62	68	46.73	34	43.940	296	67.82	116	35.514	354	44.51	41	6.957	402	32.96	8
17	19.30	69	46.39	1	44.236	301	68.98	97	35.868	362	44.92	50	7.359	411	33.04	26
27	19.99	70	46.40	37	44.537	302	69.95	74	36.230	363	45.42	57	7.770	415	33.30	43
Sept. 6	20.69	70	46.77	71	44.839	299	70.69	48	36.593	360	45.99	61	8.185	413	33.73	58
16	21.39	68	47.48	104	45.138	291	71.17	21	36.953	352	46.60	65	8.598	405	34.31	72
26	22.07	66	48.52	137	45.429	281	71.38	6	37.305	341	47.25	68	9.003	393	35.03	85
Okt. 6	22.73	62	49.89	166	45.710	267	71.32	33	37.646	325	47.93	70	9.396	375	35.88	98
16	23.35	57	51.55	193	45.977	250	70.99	58	37.971	306	48.63	71	9.771	354	36.86	108
26	23.92	52	53.48	216	46.227	229	70.41	78	38.277	282	49.34	72	10.125	326	37.94	117
Nov. 5	24.44	46	55.64	236	46.456	204	69.63	94	38.559	253	50.06	74	10.451	293	39.11	127
15	24.90	37	58.00	251	46.660	175	68.69	106	38.812	220	50.80	76	10.744	254	40.38	134
25	25.27	29	60.51	260	46.835	143	67.63	113	39.032	181	51.56	76	10.998	207	41.72	138
Dez. 4*)	[3] 25.56	19	63.11	261	[4] 46.978	106	66.50	114	[4] 39.213	137	52.32	76	[5] 11.205	156	43.10	139
14	25.75	9	65.72	256	47.084	66	65.36	111	39.350	88	53.08	74	11.361	100	44.49	136
24	25.84	2	68.28	241	47.150	26	64.25	104	39.438	39	53.82	70	11.461	42	45.85	131
34	25.82		70.69		47.176		63.21		39.477		54.52		11.503		47.16	
Mittl. Ort	16.55		47.25		42.464		50.15		33.744		36.37		5.115		27.99	
sec δ, tg δ	2.481		+2.270		1.001		+0.041		1.193		+0.651		1.384		+0.956	
a, a'	+6.0		+6.3		+3.1		+6.0		+3.9		+5.8		+4.3		+5.4	
b, b'	+0.05		−0.95		0.00		−0.95		+0.01		−0.96		+0.02		−0.96	

*) Bei Stern 183) lies Dez. 5

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Tag	182) 10 Camelop. AR.		Dekl.		184) ι Tauri AR.		Dekl.		185) η Aurigae AR.		Dekl.		186) ε Leporis AR.		Dekl.	
1932	$4^h 57^m$		$+60° 20'$		$4^h 59^m$		$+21° 29'$		$5^h 1^m$		$+41° 8'$		$5^h 2^m$		$-22° 27'$	
	s		"		s		"		s		"		s		"	
Jan. 0	23.91	3	57.67	209	3.062	15	49.90	4	46.127	13	52.12	113	36.348	22	36.35	212
10	23.88	11	59.76	187	3.077	30	49.94	4	46.140	44	53.25	102	36.326	65	38.47	187
20	23.77	19	61.63	158	3.047	73	49.98	2	46.096	97	54.27	85	36.261	105	40.34	156
30	23.58	26	63.21	121	2.974	111	50.00	1	45.999	143	55.12	65	36.156	140	41.90	123
Feb. 9	23.32	31	64.42	82	2.863	141	49.99	6	45.856	181	55.77	41	36.016	168	43.13	87
19	23.01	34	65.24	38	2.722	162	49.93	11	45.675	206	56.18	16	35.848	187	44.00	50
29	22.67	36	65.62	7	2.560	172	49.82	17	45.469	218	56.34	10	35.661	197	44.50	13
März 10	22.31	35	65.55	51	2.388	171	49.65	21	45.251	217	56.24	36	35.464	196	44.63	25
20	21.96	33	65.04	91	2.217	159	49.44	25	45.034	203	55.88	60	35.268	185	44.38	61
30	21.63	28	64.13	127	2.058	136	49.19	26	44.831	174	55.28	79	35.083	165	43.77	96
Apr. 9	21.35	23	62.86	158	1.922	105	48.93	26	44.657	137	54.49	95	34.918	136	42.81	130
19	21.12	16	61.28	181	1.817	66	48.67	22	44.520	89	53.54	107	34.782	101	41.51	161
29	20.96	8	59.47	197	1.751	22	48.45	15	44.431	35	52.47	113	34.681	60	39.90	188
Mai 9	20.88	1	57.50	205	1.729	24	48.30	8	44.396	21	51.34	114	34.621	16	38.02	213
19	20.89	9	55.45	207	1.753	72	48.22	2	44.417	79	50.20	110	34.605	30	35.89	232
29	20.98	18	53.38	200	1.825	119	48.24	14	44.496	136	49.10	102	34.635	75	33.57	247
Juni 8	21.16	26	51.38	189	1.944	163	48.38	25	44.632	189	48.08	90	34.710	119	31.10	256
18	21.42	33	49.49	171	2.107	202	48.63	36	44.821	239	47.18	76	34.829	159	28.54	257
28	21.75	39	47.78	149	2.309	237	48.99	47	45.060	281	46.42	60	34.988	197	25.97	253
Juli 8	22.14	45	46.29	123	2.546	267	49.46	55	45.341	318	45.82	42	35.185	228	23.44	241
18	22.59	50	45.06	95	2.813	290	50.01	62	45.659	348	45.40	25	35.413	255	21.03	222
28	23.09	53	44.11	66	3.103	308	50.63	65	46.007	370	45.15	7	35.668	277	18.81	196
Aug. 7	23.62	56	43.45	35	3.411	319	51.28	66	46.377	386	45.08	9	35.945	292	16.85	162
17	24.18	58	43.10	4	3.730	326	51.94	64	46.763	396	45.17	26	36.237	302	15.23	124
27	24.76	58	43.06	26	4.056	329	52.58	59	47.159	400	45.43	39	36.539	306	13.99	81
Sept. 6	25.34	58	43.32	57	4.385	327	53.17	53	47.559	398	45.82	53	36.845	306	13.18	34
16	25.92	57	43.89	86	4.712	320	53.70	45	47.957	392	46.35	64	37.151	300	12.84	15
26	26.49	56	44.75	113	5.032	311	54.15	36	48.349	381	46.99	75	37.451	290	12.99	62
Okt. 6	27.05	53	45.88	140	5.343	298	54.51	27	48.730	365	47.74	85	37.741	275	13.61	109
16	27.58	49	47.28	164	5.641	281	54.78	19	49.095	345	48.59	94	38.016	256	14.70	150
26	28.07	45	48.92	185	5.922	260	54.97	12	49.440	320	49.53	102	38.272	232	16.20	186
Nov. 5	28.52	40	50.77	203	6.182	236	55.09	6	49.760	288	50.55	110	38.504	204	18.06	215
15	28.92	34	52.80	217	6.418	206	55.15	3	50.048	251	51.65	116	38.708	171	20.21	236
25	29.26	27	54.97	227	6.624	171	55.18	2	50.299	208	52.81	120	38.879	134	22.57	246
Dez. 5	29.53	19	57.24	231	6.795	132	55.20	1	50.507	158	54.01	122	39.013	94	25.03	248
14	29.72	11	59.55	227	6.927	89	55.21	2	50.665	105	55.23	121	39.107	50	27.51	242
24	29.83	2	61.82	217	7.016	44	55.23	2	50.770	49	56.44	116	39.157	6	29.93	227
34	29.85		63.99		7.060		55.25		50.819		57.60		39.163		32.20	
Mittl. Ort	21.65		42.75		1.765		39.79		44.570		39.50		34.919		40.44	
sec δ, tg δ	2.021		+1.756		1.075		+0.394		1.328		+0.874		1.082		−0.413	
a, a'	+5.3		+5.4		+3.6		+5.3		+4.2		+5.0		+2.5		+5.0	
b, b'	+0.03		−0.96		+0.01		−0.96		+0.01		−0.97		−0.01		−0.97	

Tag	188) β Eridani AR.		188) β Eridani Dekl.		192) μ Aurigae AR.		192) μ Aurigae Dekl.		194) β Orionis AR.		194) β Orionis Dekl.		191) 19 H. Camelop. AR.		191) 19 H. Camelop. Dekl.	
1932	$5^h\,4^m$		−5° 10′		$5^h\,8^m$		+38° 24′		$5^h\,11^m$		−8° 16′		$5^h\,11^m$		+79° 9′	
Jan. 0	31.649	5	16.67	138	47.867	22	32.52	99	17.450	7	38.08	155	24.91	18	42.03	290
10	31.654	38	18.05	122	47.889	33	33.51	91	17.457	36	39.63	138	24.73	39	44.93	265
20	31.616	77	19.27	104	47.856	85	34.42	77	17.421	77	41.01	117	24.34	60	47.58	230
30	31.539	111	20.31	83	47.771	131	35.19	59	17.344	112	42.18	94	23.74	77	49.88	186
Feb. 9	31.428	140	21.14	61	47.640	168	35.78	40	17.232	140	43.12	70	22.97	90	51.74	136
19	31.288	159	21.75	39	47.472	195	36.18	17	17.092	161	43.82	45	22.07	99	53.10	80
29	31.129	169	22.14	17	47.277	208	36.35	6	16.931	172	44.27	19	21.08	104	53.90	22
März 10	30.960	170	22.31	6	47.069	209	36.29	28	16.759	174	44.46	7	20.04	103	54.12	35
20	30.790	159	22.25	28	46.860	196	36.01	50	16.585	164	44.39	32	19.01	97	53.77	91
30	30.631	140	21.97	51	46.664	171	35.51	68	16.421	146	44.07	56	18.04	88	52.86	142
Apr. 9	30.491	112	21.46	73	46.493	135	34.83	83	16.275	119	43.51	81	17.16	75	51.44	185
19	30.379	78	20.73	94	46.358	90	34.00	93	16.156	85	42.70	105	16.41	58	49.59	222
29	30.301	38	19.79	115	46.268	40	33.07	98	16.071	47	41.65	126	15.83	39	47.37	250
Mai 9	30.263	3	18.64	133	46.228	14	32.09	99	16.024	5	40.39	146	15.44	18	44.87	268
19	30.266	48	17.31	150	46.242	70	31.10	95	16.019	39	38.93	164	15.26	3	42.19	278
29	30.314	90	15.81	163	46.312	124	30.15	88	16.058	81	37.29	178	15.29	24	39.41	279
Juni 8	30.404	132	14.18	174	46.436	176	29.27	78	16.139	123	35.51	187	15.53	45	36.62	270
18	30.536	169	12.44	180	46.612	224	28.49	65	16.262	161	33.64	193	15.98	65	33.92	255
28	30.705	202	10.64	180	46.836	266	27.84	50	16.423	195	31.71	193	16.63	82	31.37	233
Juli 8	30.907	232	8.84	176	47.102	302	27.34	35	16.618	225	29.78	188	17.45	98	29.04	205
18	31.139	255	7.08	166	47.404	330	26.99	19	16.843	249	27.90	177	18.43	112	26.99	172
28	31.394	273	5.42	150	47.734	354	26.80	5	17.092	269	26.13	159	19.55	124	25.27	136
Aug. 7	31.667	287	3.92	130	48.088	370	26.75	10	17.361	283	24.54	136	20.79	132	23.91	98
17	31.954	294	2.62	105	48.458	380	26.85	23	17.644	292	23.18	109	22.11	139	22.93	56
27	32.248	298	1.57	74	48.838	385	27.08	34	17.936	297	22.09	77	23.50	142	22.37	13
Sept. 6	32.546	297	0.83	42	49.223	384	27.42	45	18.233	297	21.32	41	24.92	144	22.24	29
16	32.843	291	0.41	8	49.607	380	27.87	54	18.530	294	20.91	4	26.36	143	22.53	71
26	33.134	283	0.33	26	49.987	371	28.41	62	18.824	285	20.87	33	27.79	139	23.24	113
Okt. 6	33.417	271	0.59	60	50.358	357	29.03	69	19.109	274	21.20	69	29.18	133	24.37	153
16	33.688	255	1.19	90	50.715	338	29.72	77	19.383	258	21.89	102	30.51	124	25.90	190
26	33.943	234	2.09	117	51.053	315	30.49	84	19.641	239	22.91	130	31.75	112	27.80	225
Nov. 5	34.177	211	3.26	137	51.368	286	31.33	90	19.880	215	24.21	153	32.87	98	30.05	255
15	34.388	182	4.63	152	51.654	251	32.23	96	20.095	186	25.74	169	33.85	81	32.60	280
25	34.570	149	6.15	159	51.905	210	33.19	101	20.281	153	27.43	179	34.66	63	35.40	297
Dez. 5	34.719	112	7.74	162	52.115	163	34.20	103	20.434	117	29.22	181	35.29	42	38.37	308
14	34.831	73	9.36	158	52.278	112	35.23	104	20.551	76	31.03	177	35.71	19	41.45	308
24	34.904	30	10.94	149	52.390	57	36.27	101	20.627	33	32.80	167	35.90	4	44.53	298
34	34.934		12.43		52.447		37.28		20.660		34.47		35.86		47.51	
Mittl. Ort	30.360		23.02		46.329		20.54		16.131		44.15		18.72		26.76	
sec δ, tg δ	1.004		−0.091		1.276		+0.793		1.011		−0.146		5.316		+5.221	
a, *a′*	+3.0		+4.8		+4.1		+4.4		+2.9		+4.2		+9.9		+4.2	
b, *b′*	0.00		−0.97		+0.01		−0.98		0.00		−0.98		+0.07		−0.98	

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Tag	193) α Aurigae				196) ϑ Doradus				201) γ Orionis				202) β Tauri			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1932	$5^h\ 11^m$		$+45°\ 55'$		$5^h\ 13^m$		$-67°\ 15'$		$5^h\ 21^m$		$+6°\ 17'$		$5^h\ 21^m$		$+28°\ 33'$	
Jan. 0	41.475	21	63.46	140	51.86	26	41.04	305	30.283	29	29.67	84	60.954	39	16.43	44
10	41.496	41	64.86	127	51.60	35	44.09	267	30.312	15	28.83	73	60.993	13	16.87	42
20	41.455	100	66.13	109	51.25	44	46.76	222	30.297	58	28.10	63	60.980	60	17.29	37
30	41.355	152	67.22	87	50.81	51	48.98	173	30.239	96	27.47	51	60.920	104	17.66	30
Feb. 9	41.203	193	68.09	60	50.30	56	50.71	120	30.143	127	26.96	39	60.816	141	17.96	20
19	41.010	224	68.69	30	49.74	59	51.91	65	30.016	150	26.57	28	60.675	166	18.16	9
29	40.786	239	68.99	0	49.15	61	52.56	9	29.866	163	26.29	17	60.509	182	18.25	3
März 10	40.547	240	68.99	31	48.54	61	52.65	46	29.703	166	26.12	6	60.327	185	18.22	16
20	40.307	226	68.68	59	47.93	58	52.19	100	29.537	158	26.06	6	60.142	176	18.06	27
30	40.081	199	68.09	85	47.35	55	51.19	149	29.379	141	26.12	18	59.966	156	17.79	36
Apr. 9	39.882	159	67.24	106	46.80	50	49.70	196	29.238	116	26.30	30	59.810	126	17.43	44
19	39.723	109	66.18	122	46.30	43	47.74	237	29.122	82	26.60	44	59.684	88	16.99	49
29	39.614	54	64.96	133	45.87	35	45.37	274	29.040	43	27.04	57	59.596	44	16.50	49
Mai 9	39.560	6	63.63	138	45.52	26	42.63	305	28.997	2	27.61	71	59.552	3	16.01	47
19	39.566	69	62.25	137	45.26	17	39.58	327	28.995	42	28.32	84	59.555	53	15.54	41
29	39.635	129	60.88	132	45.09	8	36.31	342	29.037	85	29.16	96	59.608	102	15.13	34
Juni 8	39.764	188	59.56	122	45.01	3	32.89	349	29.122	126	30.12	106	59.710	148	14.79	26
18	39.952	241	58.34	108	45.04	12	29.40	347	29.248	165	31.18	113	59.858	191	14.53	15
28	40.193	288	57.26	93	45.16	22	25.93	335	29.413	199	32.31	117	60.049	230	14.38	6
Juli 8	40.481	329	56.33	74	45.38	31	22.58	314	29.612	228	33.48	119	60.279	263	14.32	5
18	40.810	363	55.59	55	45.69	38	19.44	285	29.840	252	34.67	116	60.542	290	14.37	14
28	41.173	390	55.04	36	46.07	46	16.59	245	30.092	272	35.83	108	60.832	312	14.51	21
Aug. 7	41.563	409	54.68	16	46.53	51	14.14	198	30.364	287	36.91	96	61.144	327	14.72	28
17	41.972	422	54.52	3	47.04	55	12.16	145	30.651	297	37.87	80	61.471	339	15.00	31
27	42.394	429	54.55	21	47.59	59	10.71	84	30.948	302	38.67	62	61.810	345	15.31	33
Sept. 6	42.823	429	54.76	39	48.18	59	9.87	21	31.250	303	39.29	40	62.155	346	15.64	33
16	43.252	424	55.15	56	48.77	59	9.66	44	31.553	301	39.69	17	62.501	344	15.97	32
26	43.676	415	55.71	71	49.36	57	10.10	109	31.854	295	39.86	8	62.845	338	16.29	31
Okt. 6	44.091	400	56.42	85	49.93	53	11.19	170	32.149	286	39.78	31	63.183	328	16.60	30
16	44.491	379	57.27	99	50.46	47	12.89	226	32.435	273	39.47	51	63.511	314	16.90	29
26	44.870	353	58.26	113	50.93	40	15.15	274	32.708	256	38.96	70	63.825	294	17.19	29
Nov. 5	45.223	320	59.39	124	51.33	32	17.89	313	32.964	234	38.26	85	64.119	271	17.48	29
15	45.543	280	60.63	134	51.65	22	21.02	339	33.198	207	37.41	95	64.390	241	17.77	31
25	45.823	234	61.97	142	51.87	12	24.41	354	33.405	176	36.46	100	64.631	206	18.08	34
Dez. 5	46.057	180	63.39	146	51.99	1	27.95	356	33.581	139	35.46	101	64.837	165	18.42	37
14	46.237	123	64.85	147	52.00	9	31.51	346	33.720	99	34.45	98	65.002	119	18.79	40
24	46.360	60	66.32	143	51.91	20	34.97	325	33.819	56	33.47	91	65.121	70	19.19	42
34	46.420		67.75		51.71		38.22		33.875		32.56		65.191		19.61	
Mittl. Ort	39.746		50.78		48.28		42.50		28.977		21.80		59.513		6.08	
sec δ, tg δ	1.438		+1.033		2.587		−2.386		1.006		+0.110		1.138		+0.544	
a, a'	+4.4		+4.2		−0.1		+4.0		+3.2		+3.4		+3.8		+3.3	
b, b'	+0.01		−0.98		−0.03		−0.98		0.00		−0.99		+0.01		−0.99	

Tag	203) 17 Camelop. AR.	Δ	Dekl.	Δ	206) δ Orionis AR.	Δ	Dekl.	Δ
1932	5h 23m		+63° 0′		5h 28m		−0° 20′	
Jan. 0	47.21	1	60.01	230	33.214	30	46.08	122
10	47.22	8	62.31	211	33.244	15	47.30	108
20	47.14	18	64.42	186	33.229	57	48.38	92
30	46.96	25	66.28	154	33.172	95	49.30	76
Feb. 9	46.71	32	67.82	115	33.077	127	50.06	57
19	46.39	36	68.97	71	32.950	150	50.63	40
29	46.03	39	69.68	26	32.800	164	51.03	22
März 10	45.64	40	69.94	20	32.636	169	51.25	3
20	45.24	38	69.74	65	32.467	163	51.28	14
30	44.86	34	69.09	106	32.304	146	51.14	33
Apr. 9	44.52	28	68.03	142	32.158	121	50.81	51
19	44.24	22	66.61	171	32.037	90	50.30	68
29	44.02	14	64.90	195	31.947	53	49.62	86
Mai 9	43.88	5	62.95	209	31.894	11	48.76	102
19	43.83	5	60.86	217	31.883	30	47.74	117
29	43.88	14	58.69	218	31.913	73	46.57	130
Juni 8	44.02	21	56.51	211	31.986	114	45.27	141
18	44.23	30	54.40	200	32.100	152	43.86	147
28	44.53	38	52.40	182	32.252	187	42.39	150
Juli 8	44.91	45	50.58	160	32.439	217	40.89	148
18	45.36	50	48.98	135	32.656	242	39.41	142
28	45.86	54	47.63	108	32.898	262	37.99	130
Aug. 7	46.40	58	46.55	78	33.160	278	36.69	113
17	46.98	61	45.77	47	33.438	289	35.56	92
27	47.59	63	45.30	15	33.727	296	34.64	68
Sept. 6	48.22	63	45.15	16	34.023	298	33.96	40
16	48.85	63	45.31	47	34.321	297	33.56	10
26	49.48	62	45.78	79	34.618	293	33.46	21
Okt. 6	50.10	60	46.57	108	34.911	284	33.67	50
16	50.70	57	47.65	138	35.195	271	34.17	77
26	51.27	52	49.03	164	35.466	255	34.94	100
Nov. 5	51.79	48	50.67	187	35.721	234	35.94	120
15	52.27	42	52.54	208	35.955	207	37.14	132
25	52.69	34	54.62	224	36.162	176	38.46	141
Dez. 5	53.03	25	56.86	234	36.338	140	39.87	143
14	53.28	17	59.20	237	36.478	100	41.30	139
24	53.45	7	61.57	234	36.578	58	42.69	131
34	53.52		63.91		36.636		44.00	
Mittl. Ort	44.50		46.61		31.892		53.25	
sec δ, tg δ	2.204		+1.964		1.000		−0.006	
a, *a′*	+5.7		+3.2		+3.1		+2.7	
b, *b′*	+0.02		−0.99		0.00		−0.99	

Tag	207) α Leporis AR.	Δ	Dekl.	Δ	205) Grb 966 AR.	Δ	Dekl.	Δ
1932	5h 29m		−17° 51′		5h 30m		+75° 0′	
Jan. 0	45.235	12	65.81	208	42.07	3	22.00	281
10	45.247	36	67.89	186	42.04	19	24.81	261
20	45.211	78	69.75	160	41.85	35	27.42	233
30	45.133	116	71.35	130	41.50	49	29.75	194
Feb. 9	45.017	148	72.65	99	41.01	60	31.69	149
19	44.869	172	73.64	66	40.41	67	33.18	98
29	44.697	185	74.30	32	39.74	73	34.16	44
März 10	44.512	190	74.62	3	39.01	74	34.60	11
20	44.322	184	74.59	36	38.27	71	34.49	64
30	44.138	167	74.23	68	37.56	65	33.85	115
Apr. 9	43.971	143	73.55	100	36.91	56	32.70	159
19	43.828	111	72.55	129	36.35	45	31.11	198
29	43.717	74	71.26	156	35.90	32	29.13	227
Mai 9	43.643	33	69.70	180	35.58	17	26.86	249
19	43.610	11	67.90	201	35.41	2	24.37	262
29	43.621	54	65.89	216	35.39	14	21.75	267
Juni 8	43.675	97	63.73	228	35.53	29	19.08	264
18	43.772	137	61.45	232	35.82	43	16.44	252
28	43.909	173	59.13	232	36.25	57	13.92	235
Juli 8	44.082	206	56.81	224	36.82	69	11.57	211
18	44.288	234	54.57	209	37.51	80	9.46	184
28	44.522	258	52.48	187	38.31	88	7.62	152
Aug. 7	44.780	275	50.61	160	39.19	95	6.10	117
17	45.055	289	49.01	125	40.14	101	4.93	80
27	45.344	297	47.76	87	41.15	105	4.13	41
Sept. 6	45.641	301	46.89	44	42.20	107	3.72	1
16	45.942	300	46.45	1	43.27	106	3.71	38
26	46.242	294	46.46	47	44.33	105	4.09	79
Okt. 6	46.536	285	46.93	90	45.38	102	4.88	117
16	46.821	271	47.83	132	46.40	96	6.05	155
26	47.092	252	49.15	167	47.36	89	7.60	189
Nov. 5	47.344	228	50.82	196	48.25	80	9.49	221
15	47.572	199	52.78	218	49.05	68	11.70	248
25	47.771	164	54.96	232	49.73	55	14.18	269
Dez. 5	47.935	126	57.28	236	50.28	40	16.87	284
14	48.061	84	59.64	232	50.68	25	19.71	289
24	48.145	38	61.96	221	50.93	7	22.60	285
34	48.183		64.17		51.00		25.45	
Mittl. Ort	43.824		71.33		37.25		8.41	
sec δ, tg δ	1.051		−0.322		3.864		+3.733	
a, *a′*	+2.6		+2.6		+8.0		+2.6	
b, *b′*	0.00		−0.99		+0.03		−0.99	

Scheinbare Sternörter 1932

Tag	209) ι Orionis				210) ε Orionis				212) β Doradus				211) ζ Tauri			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$5^{h}\,32^{m}$		$-5°\,56'$		$5^{h}\,32^{m}$		$-1°\,14'$		$5^{h}\,32^{m}$		$-62°\,31'$		$5^{h}\,33^{m}$		$+21°\,6'$	
Jan. 0	7.718	28	65.29	152	47.058	33	31.42	128	64.92	16	59.70	321	36.192	48	18.64	1
10	7.746	17	66.81	136	47.091	12	32.70	114	64.76	24	62.91	288	36.240	1	18.63	3
20	7.729	60	68.17	117	47.079	55	33.84	97	64.52	32	65.79	247	36.239	47	18.66	5
30	7.669	97	69.34	95	47.024	93	34.81	79	64.20	39	68.26	200	36.192	90	18.71	5
Feb. 9	7.572	130	70.29	73	46.931	125	35.60	61	63.81	44	70.26	150	36.102	126	18.76	3
19	7.442	154	71.02	50	46.806	150	36.21	42	63.37	47	71.76	96	35.976	152	18.79	0
29	7.288	168	71.52	26	46.656	165	36.63	23	62.90	50	72.72	41	35.824	169	18.79	4
März 10	7.120	173	71.78	3	46.491	169	36.86	4	62.40	50	73.13	14	35.655	175	18.75	8
20	6.947	167	71.81	21	46.322	163	36.90	15	61.90	49	72.99	67	35.480	168	18.67	12
30	6.780	152	71.60	44	46.159	149	36.75	33	61.41	46	72.32	119	35.312	152	18.55	15
Apr. 9	6.628	128	71.16	66	46.010	124	36.42	52	60.95	42	71.13	167	35.160	125	18.40	16
19	6.500	96	70.50	87	45.886	93	35.90	71	60.53	37	69.46	212	35.035	91	18.24	15
29	6.404	60	69.63	109	45.793	56	35.19	88	60.16	31	67.34	250	34.944	51	18.09	12
Mai 9	6.344	20	68.54	128	45.737	16	34.31	105	59.85	23	64.84	285	34.893	6	17.97	8
19	6.324	22	67.26	144	45.721	26	33.26	121	59.62	16	61.99	311	34.887	39	17.89	1
29	6.346	65	65.82	158	45.747	68	32.05	133	59.46	8	58.88	331	34.926	85	17.88	7
Juni 8	6.411	106	64.24	169	45.815	109	30.72	144	59.38	1	55.57	342	35.011	129	17.95	16
18	6.517	144	62.55	176	45.924	148	29.28	151	59.39	8	52.15	344	35.140	170	18.11	24
28	6.661	179	60.79	177	46.072	182	27.77	153	59.47	17	48.71	338	35.310	206	18.35	31
Juli 8	6.840	210	59.02	173	46.254	213	26.24	151	59.64	24	45.33	321	35.516	238	18.66	37
18	7.050	236	57.29	164	46.467	238	24.73	145	59.88	31	42.12	295	35.754	265	19.03	41
28	7.286	257	55.65	149	46.705	259	23.28	132	60.19	38	39.17	260	36.019	287	19.44	44
Aug. 7	7.543	273	54.16	129	46.964	276	21.96	115	60.57	43	36.57	216	36.306	303	19.88	43
17	7.816	286	52.87	103	47.240	287	20.81	93	61.00	46	34.41	166	36.609	316	20.31	40
27	8.102	293	51.84	74	47.527	294	19.88	68	61.46	49	32.75	107	36.925	323	20.71	35
Sept. 6	8.395	297	51.10	41	47.821	298	19.20	40	61.95	51	31.68	45	37.248	326	21.06	28
16	8.692	296	50.69	6	48.119	297	18.80	8	62.46	51	31.23	20	37.574	325	21.34	19
26	8.988	291	50.63	29	48.416	294	18.72	22	62.97	50	31.43	85	37.899	322	21.53	10
Okt. 6	9.279	284	50.92	64	48.710	285	18.94	53	63.47	48	32.28	149	38.221	314	21.63	2
16	9.563	271	51.56	96	48.995	273	19.47	81	63.95	44	33.77	206	38.535	302	21.65	6
26	9.834	254	52.52	123	49.268	257	20.28	105	64.39	38	35.83	259	38.837	286	21.59	12
Nov. 5	10.088	233	53.75	146	49.525	237	21.33	125	64.77	32	38.42	301	39.123	265	21.47	16
15	10.321	207	55.21	163	49.762	210	22.58	139	65.09	25	41.43	332	39.388	238	21.31	18
25	10.528	175	56.84	172	49.972	179	23.97	147	65.34	16	44.75	353	39.626	205	21.13	16
Dez. 5	10.703	138	58.56	175	50.151	143	25.44	149	65.50	7	48.28	360	39.831	167	20.97	13
14	10.841	98	60.31	173	50.294	104	26.93	146	65.57	2	51.88	355	39.998	125	20.84	10
24	10.939	55	62.04	163	50.398	60	28.39	138	65.55	10	55.43	339	40.123	78	20.74	6
34	10.994		63.67		50.458		29.77		65.45		58.82		40.201		20.68	
Mittl. Ort	6.378		71.94		45.729		36.52		61.95		62.85		34.791		9.41	
sec δ, tg δ	1.005		−0.104		1.000		−0.022		2.168		−1.924		1.072		+0.386	
a, *a'*	+2.9		+2.4		+3.0		+2.4		+0.5		+2.4		+3.6		+2.3	
b, *b'*	0.00		−0.99		0.00		−0.99		−0.02		−0.99		0.00		−0.99	

Tag	215) α Columbae AR.		215) α Columbae Dekl.		216) ο Aurigae AR.		216) ο Aurigae Dekl.		219) ζ Leporis AR.		219) ζ Leporis Dekl.		220) κ Orionis AR.		220) κ Orionis Dekl.	
1932	$5^h\ 37^m$		$-34°\ 6'$		$5^h\ 40^m$		$+49°\ 47'$		$5^h\ 43^m$		$-14°\ 50'$		$5^h\ 44^m$		$-9°\ 41'$	
	s		″		s		″		s		″		s		″	
Jan. 0	12.772	14	29.74	274	39.878	59	66.04	165	53.820	28	39.76	201	33.230	35	26.56	176
10	12.758	64	32.48	247	39.937	12	67.69	157	53.848	19	41.77	181	33.265	11	28.32	159
20	12.694	112	34.95	214	39.925	79	69.26	142	53.829	62	43.58	157	33.254	55	29.91	137
30	12.582	155	37.09	175	39.846	141	70.68	121	53.767	102	45.15	131	33.199	94	31.28	113
Feb. 9	12.427	190	38.84	134	39.705	192	71.89	95	53.665	136	46.46	100	33.105	128	32.41	88
19	12.237	216	40.18	90	39.513	231	72.84	65	53.529	162	47.46	70	32.977	155	33.29	61
29	12.021	232	41.08	45	39.282	255	73.49	31	53.367	179	48.16	38	32.822	170	33.90	34
März 10	11.789	238	41.53	0	39.027	264	73.80	3	53.188	185	48.54	7	32.652	177	34.24	7
20	11.551	231	41.53	45	38.763	257	73.77	36	53.003	180	48.61	24	32.475	174	34.31	19
30	11.320	216	41.08	89	38.506	235	73.41	67	52.823	167	48.37	54	32.301	160	34.12	46
Apr. 9	11.104	191	40.19	129	38.271	199	72.74	95	52.656	145	47.83	84	32.141	137	33.66	71
19	10.913	157	38.90	167	38.072	152	71.79	118	52.511	115	46.99	112	32.004	109	32.95	96
29	10.756	117	37.23	202	37.920	97	70.61	135	52.396	79	45.87	137	31.895	72	31.99	118
Mai 9	10.639	73	35.21	232	37.823	35	69.26	148	52.317	40	44.50	161	31.823	34	30.81	139
19	10.566	26	32.89	256	37.788	29	67.78	154	52.277	2	42.89	181	31.789	8	29.42	157
29	10.540	22	30.33	275	37.817	94	66.24	155	52.279	45	41.08	197	31.797	50	27.85	173
Juni 8	10.562	70	27.58	288	37.911	156	64.69	151	52.324	86	39.11	209	31.847	91	26.12	184
18	10.632	116	24.70	292	38.067	215	63.18	143	52.410	126	37.02	215	31.938	130	24.28	190
28	10.748	159	21.78	289	38.282	269	61.75	131	52.536	163	34.87	215	32.068	165	22.38	191
Juli 8	10.907	199	18.89	278	38.551	316	60.44	116	52.699	195	32.72	210	32.233	197	20.47	187
18	11.106	233	16.11	258	38.867	357	59.28	99	52.894	224	30.62	198	32.430	225	18.60	177
28	11.339	263	13.53	230	39.224	391	58.29	80	53.118	247	28.64	178	32.655	248	16.83	161
Aug. 7	11.602	287	11.23	195	39.615	418	57.49	60	53.365	266	26.86	153	32.903	266	15.22	139
17	11.889	306	9.28	152	40.033	436	56.89	40	53.631	282	25.33	123	33.169	280	13.83	111
27	12.195	319	7.76	103	40.469	451	56.49	20	53.913	292	24.10	86	33.449	290	12.72	79
Sept. 6	12.514	326	6.73	50	40.920	458	56.29	0	54.205	297	23.24	46	33.739	296	11.93	43
16	12.840	326	6.23	6	41.378	460	56.29	20	54.502	299	22.78	3	34.035	297	11.50	5
26	13.166	322	6.29	62	41.838	455	56.49	40	54.801	296	22.75	39	34.332	294	11.45	34
Okt. 6	13.488	311	6.91	117	42.293	446	56.89	60	55.097	289	23.14	82	34.626	288	11.79	72
16	13.799	294	8.08	168	42.739	430	57.49	80	55.386	277	23.96	122	34.914	277	12.51	107
26	14.093	271	9.76	214	43.169	406	58.29	97	55.663	261	25.18	156	35.191	262	13.58	139
Nov. 5	14.364	241	11.90	251	43.575	374	59.26	115	55.924	240	26.74	185	35.453	241	14.97	165
15	14.605	206	14.41	279	43.949	335	60.41	132	56.164	212	28.59	206	35.694	215	16.62	183
25	14.811	165	17.20	297	44.284	288	61.73	146	56.376	180	30.65	220	35.909	184	18.45	195
Dez. 5	14.976	120	20.17	304	44.572	232	63.19	157	56.556	143	32.85	226	36.093	148	20.40	199
15	[15] 15.096	70	23.21	302	[16] 44.804	169	64.76	164	[17] 56.699	101	35.11	222	[17] 36.241	106	22.39	197
24	15.166	18	26.23	289	44.973	102	66.40	164	56.800	56	37.33	214	36.347	63	24.36	187
34	15.184		29.12		45.075		68.04		56.856		39.47		36.410		26.23	
Mittl. Ort	11.129		34.38		37.860		54.71		52.421		45.91		31.861		33.09	
sec δ, tg δ	1.208		−0.677		1.549		+1.183		1.035		−0.265		1.014		−0.171	
a, *a'*	+2.2		+2.0		+4.6		+1.7		+2.7		+1.4		+2.8		+1.4	
b, *b'*	0.00		−1.00		+0.01		−1.00		0.00		−1.00		0.00		−1.00	

Tag	224) α Orionis				225) δ Aurigae				227) β Aurigae				228) ϑ Aurigae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	5ʰ 51ᵐ		+7° 23′		5ʰ 53ᵐ		+54° 16′		5ʰ 54ᵐ		+44° 56′		5ʰ 55ᵐ		+37° 12′	
Jan. 0	30.756	57	53.04	85	57.969	79	64.99	190	34.360	79	42.89	138	6.761	78	44.09	93
10	30.813	11	52.19	74	58.048	1	66.89	182	34.439	13	44.27	135	6.839	18	45.02	93
20	30.824	35	51.45	63	58.047	76	68.71	167	34.452	51	45.62	125	6.857	39	45.95	88
30	30.789	77	50.82	50	57.971	146	70.38	146	34.401	110	46.87	111	6.818	91	46.83	78
Feb. 9	30.712	112	50.32	38	57.825	206	71.84	119	34.291	160	47.98	90	6.727	136	47.61	64
19	30.600	141	49.94	27	57.619	251	73.03	86	34.131	199	48.88	65	6.591	173	48.25	47
29	30.459	159	49.67	16	57.368	282	73.89	50	33.932	225	49.53	38	6.418	196	48.72	27
März 10	30.300	167	49.51	6	57.086	296	74.39	12	33.707	237	49.91	10	6.222	206	48.99	7
20	30.133	164	49.45	4	56.790	292	74.51	26	33.470	233	50.01	20	6.016	204	49.06	15
30	29.969	151	49.49	15	56.498	271	74.25	62	33.237	217	49.81	47	5.812	188	48.91	35
Apr. 9	29.818	129	49.64	26	56.227	235	73.63	95	33.020	186	49.34	72	5.624	161	48.56	52
19	29.689	100	49.90	36	55.992	187	72.68	123	32.834	146	48.62	93	5.463	126	48.04	67
29	29.589	64	50.26	48	55.805	129	71.45	146	32.688	97	47.69	110	5.337	82	47.37	78
Mai 9	29.525	25	50.74	59	55.676	64	69.99	162	32.591	43	46.59	121	5.255	32	46.59	86
19	29.500	17	51.33	71	55.612	5	68.37	174	32.548	15	45.38	128	5.223	19	45.73	89
29	29.517	59	52.04	81	55.617	76	66.63	178	32.563	74	44.10	131	5.242	71	44.84	89
Juni 8	29.576	100	52.85	90	55.693	144	64.85	178	32.637	131	42.79	128	5.313	123	43.95	85
18	29.676	138	53.75	96	55.837	210	63.07	172	32.768	184	41.51	122	5.436	170	43.10	79
28	29.814	174	54.71	101	56.047	270	61.35	162	32.952	234	40.29	114	5.606	214	42.31	71
Juli 8	29.988	205	55.72	102	56.317	324	59.73	148	33.186	279	39.15	102	5.820	254	41.60	63
18	30.193	232	56.74	98	56.641	371	58.25	131	33.465	317	38.13	89	6.074	287	40.97	52
28	30.425	255	57.72	92	57.012	412	56.94	112	33.782	349	37.24	74	6.361	315	40.45	42
Aug. 7	30.680	273	58.64	81	57.424	444	55.82	91	34.131	375	36.50	60	6.676	339	40.03	32
17	30.953	286	59.45	67	57.868	469	54.91	69	34.506	395	35.90	44	7.015	356	39.71	23
27	31.239	296	60.12	49	58.337	488	54.22	46	34.901	410	35.46	28	7.371	368	39.48	14
Sept. 6	31.535	302	60.61	28	58.825	499	53.76	22	35.311	419	35.18	14	7.739	376	39.34	6
16	31.837	305	60.89	6	59.324	505	53.54	2	35.730	424	35.04	2	8.115	380	39.28	2
26	32.142	303	60.95	17	59.829	504	53.56	26	36.154	422	35.06	17	8.495	380	39.30	9
Okt. 6	32.445	299	60.78	39	60.333	495	53.82	50	36.576	416	35.23	33	8.875	374	39.39	18
16	32.744	290	60.39	60	60.828	480	54.32	74	36.992	405	35.56	49	9.249	364	39.57	26
26	33.034	276	59.79	77	61.308	456	55.06	97	37.397	386	36.05	65	9.613	349	39.83	35
Nov. 5	33.310	258	59.02	91	61.764	424	56.03	120	37.783	360	36.70	80	9.962	326	40.18	45
15	33.568	234	58.11	101	62.188	382	57.23	141	38.143	327	37.50	96	10.288	297	40.63	56
25	33.802	205	57.10	105	62.570	330	58.64	159	38.470	286	38.46	110	10.585	261	41.19	66
Dez. 5	34.007	170	56.05	105	62.900	270	60.23	174	38.756	236	39.56	122	10.846	218	41.85	76
15	34.177	129	55.00	101	63.170	201	61.97	184	38.992	179	40.78	130	11.064	167	42.61	84
24	[19]34.306	86	53.99	94	[20]63.371	126	63.81	187	[20]39.171	118	42.08	136	[20]11.231	112	43.45	89
34	34.392		53.05		63.497		65.68		39.289		43.44		11.343		44.34	
Mittl. Ort	29.394		45.28		55.670		54.27		32.458		32.75		5.066		34.46	
sec δ, tg δ	1.008		+0.130		1.713		+1.391		1.413		+0.998		1.256		+0.759	
a, *a′*	+3.2		+0.7		+4.9		+0.5		+4.4		+0.5		+4.1		+0.4	
b, *b′*	0.00		−1.00		0.00		−1.00		0.00		−1.00		0.00		−1.00	

Tag	229) η Columbae AR.		229) η Columbae Dekl.		232) ν Orionis AR.		232) ν Orionis Dekl.		236) η Geminorum AR.		236) η Geminorum Dekl.		234) 22 H. Camelop. AR.		234) 22 H. Camelop. Dekl.	
1932	5h 57m		−42° 48′		6h 3m		+14° 46′		6h 10m		+22° 31′		6h 11m		+69° 20′	
Jan. 0	5.763	15	60.70	311	42.799	74	48.70	44	47.897	87	49.51	2	25.38	11	58.53	262
10	5.748	73	63.81	284	42.873	25	48.26	35	47.984	35	49.53	8	25.49	1	61.15	254
20	5.675	128	66.65	252	42.898	23	47.91	27	48.019	16	49.61	14	25.48	14	63.69	237
30	5.547	177	69.17	212	42.875	67	47.64	19	48.003	64	49.75	17	25.34	25	66.06	211
Feb. 9	5.370	219	71.29	167	42.808	106	47.45	13	47.939	106	49.92	17	25.09	35	68.17	177
19	5.151	250	72.96	121	42.702	136	47.32	8	47.833	138	50.09	16	24.74	43	69.94	135
29	4.901	272	74.17	71	42.566	158	47.24	4	47.695	162	50.25	11	24.31	49	71.29	89
März 10	4.629	281	74.88	22	42.408	168	47.20	1	47.533	174	50.36	7	23.82	52	72.18	39
20	4.348	278	75.10	27	42.240	167	47.19	1	47.359	175	50.43	1	23.30	52	72.57	12
30	4.070	265	74.83	75	42.073	156	47.20	4	47.184	165	50.44	5	22.78	50	72.45	60
Apr. 9	3.805	241	74.08	120	41.917	135	47.24	7	47.019	144	50.39	9	22.28	45	71.85	107
19	3.564	209	72.88	164	41.782	107	47.31	12	46.875	114	50.30	12	21.83	38	70.78	148
29	3.355	168	71.24	202	41.675	71	47.43	16	46.761	78	50.18	14	21.45	29	69.30	182
Mai 9	3.187	123	69.22	237	41.604	32	47.59	23	46.683	38	50.04	13	21.16	20	67.48	210
19	3.064	73	66.85	266	41.572	10	47.82	30	46.645	6	49.91	11	20.96	9	65.38	231
29	2.991	21	64.19	288	41.582	53	48.12	37	46.651	50	49.80	8	20.87	3	63.07	244
Juni 8	2.970	32	61.31	304	41.635	95	48.49	44	46.701	93	49.72	3	20.90	13	60.63	249
18	3.002	83	58.27	311	41.730	134	48.93	50	46.794	135	49.69	2	21.03	24	58.14	248
28	3.085	133	55.16	310	41.864	171	49.43	54	46.929	174	49.71	6	21.27	35	55.66	241
Juli 8	3.218	179	52.06	301	42.035	203	49.97	56	47.103	208	49.77	10	21.62	44	53.25	226
18	3.397	221	49.05	282	42.238	232	50.53	57	47.311	238	49.87	13	22.06	52	50.99	208
28	3.618	259	46.23	254	42.470	256	51.10	53	47.549	263	50.00	13	22.58	60	48.91	185
Aug. 7	3.877	292	43.69	218	42.726	275	51.63	48	47.812	284	50.13	12	23.18	66	47.06	158
17	4.169	317	41.51	175	43.001	290	52.11	39	48.096	302	50.25	10	23.84	72	45.48	129
27	4.486	337	39.76	123	43.291	302	52.50	27	48.398	314	50.35	5	24.56	76	44.19	97
Sept. 6	4.823	350	38.53	67	43.593	310	52.77	14	48.712	324	50.40	2	25.32	78	43.22	63
16	5.173	356	37.86	8	43.903	314	52.91	1	49.036	329	50.38	9	26.10	80	42.59	28
26	5.529	355	37.78	53	44.217	315	52.90	16	49.365	331	50.29	16	26.90	80	42.31	9
Okt. 6	5.884	347	38.31	114	44.532	312	52.74	32	49.696	329	50.13	23	27.70	80	42.40	46
16	6.231	330	39.45	170	44.844	305	52.42	44	50.025	323	49.90	29	28.50	77	42.86	82
26	6.561	306	41.15	221	45.149	293	51.98	56	50.348	312	49.61	32	29.27	73	43.68	118
Nov. 5	6.867	274	43.36	264	45.442	277	51.42	63	50.660	296	49.29	33	30.00	69	44.86	153
15	7.141	235	46.00	299	45.719	254	50.79	68	50.956	273	48.96	31	30.69	62	46.39	185
25	7.376	189	48.99	322	45.973	225	50.11	69	51.229	243	48.65	28	31.31	53	48.24	213
Dez. 5	7.565	137	52.21	334	46.198	189	49.42	65	51.472	207	48.37	22	31.84	43	50.37	235
15	[20] 7.702	81	55.55	334	[22] 46.387	149	48.77	60	[24] 51.679	164	48.15	14	[24] 32.27	31	52.72	251
24	7.783	22	58.89	325	46.536	103	48.17	53	51.843	117	48.01	6	32.58	20	55.23	258
34	7.805		62.14		46.639		47.64		51.960		47.95		32.78		57.81	
Mittl. Ort	3.915		66.07		41.384		40.70		46.402		41.35		21.43		48.51	
sec δ, tg δ	1.363		−0.927		1.034		+0.264		1.083		+0.415		2.835		+2.653	
a, a'	+1.8		+0.3		+3.4		−0.3		+3.6		−0.9		+6.6		−1.0	
b, b'	0.00		−1.00		0.00		−1.00		0.00		−1.00		−0.01		−1.00	

Scheinbare Sternörter 1932

Tag	240) ζ Canis maj. AR.	Δ	Dekl.	Δ	241) μ Geminorum AR.	Δ	Dekl.	Δ	242) ψ¹ Aurigae AR.	Δ	Dekl.	Δ	243) β Canis maj. AR.	Δ	Dekl.	Δ
1932	6h 17m		−30° 1′		6h 18m		+22° 33′		6h 19m		+49° 19′		6h 19m		−17° 54′	
Jan. 0	43.672 s	39	48.83″	282	52.356 s	94	8.39″	1	41.965 s	116	37.57″	161	43.707 s	58	68.52″	231
10	43.711	14	51.65	261	52.450	44	8.38	8	42.081	43	39.18	161	43.765	10	70.83	213
20	43.697	65	54.26	234	52.494	9	8.46	14	42.124	28	40.79	155	43.775	38	72.96	189
30	43.632	111	56.60	200	52.485	57	8.60	17	42.096	95	42.34	141	43.737	83	74.85	162
Feb. 9	43.521	151	58.60	163	52.428	99	8.77	19	42.001	155	43.75	122	43.654	121	76.47	130
19	43.370	184	60.23	124	52.329	135	8.96	18	41.846	202	44.97	97	43.533	152	77.77	98
29	43.186	207	61.47	81	52.194	159	9.14	14	41.644	236	45.94	68	43.381	175	78.75	65
März 10	42.979	219	62.28	39	52.035	173	9.28	10	41.408	256	46.62	35	43.206	187	79.40	31
20	42.760	220	62.67	3	51.862	174	9.38	4	41.152	259	46.97	2	43.019	189	79.71	3
30	42.540	212	62.64	45	51.688	166	9.42	2	40.893	248	46.99	30	42.830	181	79.68	36
Apr. 9	42.328	194	62.19	85	51.522	146	9.40	7	40.645	221	46.69	61	42.649	163	79.32	68
19	42.134	168	61.34	123	51.376	119	9.33	10	40.424	183	46.08	89	42.486	139	78.64	99
29	41.966	134	60.11	159	51.257	84	9.23	13	40.241	136	45.19	112	42.347	107	77.65	127
Mai 9	41.832	96	58.52	190	51.173	43	9.10	13	40.105	81	44.07	131	42.240	71	76.38	153
19	41.736	54	56.62	218	51.130	2	8.97	11	40.024	21	42.76	143	42.169	32	74.85	175
29	41.682	11	54.44	240	51.128	43	8.86	9	40.003	40	41.33	152	42.137	8	73.10	194
Juni 8	41.671	34	52.04	257	51.171	86	8.77	6	40.043	101	39.81	156	42.145	50	71.16	209
18	41.705	78	49.47	267	51.257	128	8.71	1	40.144	160	38.25	155	42.195	89	69.07	218
28	41.783	119	46.80	269	51.385	166	8.70	3	40.304	215	36.70	150	42.284	127	66.89	220
Juli 8	41.902	158	44.11	264	51.551	200	8.73	5	40.519	265	35.20	141	42.411	162	64.69	217
18	42.060	194	41.47	251	51.751	231	8.78	8	40.784	309	33.79	130	42.573	194	62.52	206
28	42.254	225	38.96	229	51.982	258	8.86	8	41.093	348	32.49	117	42.767	221	60.46	189
Aug. 7	42.479	253	36.67	200	52.240	279	8.94	7	41.441	380	31.32	102	42.988	244	58.57	165
17	42.732	276	34.67	163	52.519	297	9.01	3	41.821	408	30.30	86	43.232	264	56.92	134
27	43.008	294	33.04	121	52.816	311	9.04	1	42.229	428	29.44	69	43.496	280	55.58	98
Sept. 6	43.302	308	31.83	71	53.127	322	9.03	8	42.657	444	28.75	50	43.776	292	54.60	57
16	43.610	316	31.12	19	53.449	328	8.95	15	43.101	453	28.25	32	44.068	300	54.03	12
26	43.926	320	30.93	36	53.777	332	8.80	23	43.554	459	27.93	13	44.368	303	53.91	33
Okt. 6	44.246	317	31.29	89	54.109	332	8.57	30	44.013	457	27.80	8	44.671	301	54.24	79
16	44.563	309	32.18	141	54.441	326	8.27	35	44.470	449	27.88	28	44.972	296	55.03	122
26	44.872	294	33.59	188	54.767	317	7.92	38	44.919	434	28.16	50	45.268	284	56.25	161
Nov. 5	45.166	273	35.47	229	55.084	301	7.54	39	45.353	411	28.66	72	45.552	266	57.86	195
15	45.439	244	37.76	262	55.385	280	7.15	37	45.764	379	29.38	93	45.818	243	59.81	221
25	45.683	210	40.38	284	55.665	251	6.78	33	46.143	336	30.31	113	46.061	212	62.02	239
Dez. 5	45.893	168	43.22	297	55.916	215	6.45	26	46.479	285	31.44	131	46.273	176	64.41	248
15	46.061	121	46.19	300	56.131	173	6.19	17	46.764	226	32.75	146	46.449	134	66.89	250
25	46.182	71	49.19	293	56.304	126	6.02	8	46.990	159	34.21	155	46.583	87	69.39	242
34	[26] 46.253		52.12		[26] 56.430		5.94		[26] 47.149		35.76		[26] 46.670		71.81	
Mittl. Ort	42.117		55.50		50.847		0.53		39.799		28.89		42.281		75.40	
sec δ, tg δ	1.155		−0.578		1.083		+0.415		1.534		+1.164		1.051		−0.323	
a, *a*′	+2.3		−1.5		+3.6		−1.6		+4.6		−1.7		+2.6		−1.7	
b, *b*′	0.00		−1.00		0.00		−1.00		−0.01		−1.00		0.00		−1.00	

Tag	244) 8 Monocerotis AR.	Δ	Dekl.	Δ
1932	6h 20m		+4° 37′	
Jan. 0	11.293	83	50.80	111
10	11.376	34	49.69	97
20	11.410	13	48.72	82
30	11.397	58	47.90	67
Feb. 9	11.339	97	47.23	51
19	11.242	129	46.72	36
29	11.113	151	46.36	23
März 10	10.962	164	46.13	8
20	10.798	166	46.05	5
30	10.632	158	46.10	17
Apr. 9	10.474	140	46.27	30
19	10.334	115	46.57	42
29	10.219	84	46.99	55
Mai 9	10.135	47	47.54	66
19	10.088	8	48.20	78
29	10.080	32	48.98	88
Juni 8	10.112	72	49.86	96
18	10.184	110	50.82	103
28	10.294	145	51.85	106
Juli 8	10.439	178	52.91	105
18	10.617	207	53.96	102
28	10.824	231	54.98	94
Aug. 7	11.055	253	55.92	81
17	11.308	269	56.73	64
27	11.577	283	57.37	45
Sept. 6	11.860	294	57.82	22
16	12.154	300	58.04	3
26	12.454	303	58.01	29
Okt. 6	12.757	303	57.72	54
16	13.060	299	57.18	78
26	13.359	290	56.40	98
Nov. 5	13.649	274	55.42	113
15	13.923	254	54.29	125
25	14.177	227	53.04	132
Dez. 5	14.404	194	51.72	132
15	14.598	154	50.40	128
25	14.752	111	49.12	120
34	[26] 14.863		47.92	
Mittl. Ort	9.910		43.47	
sec δ, tg δ	1.003		+0.081	
a, a′	+3.2		−1.8	
b, b′	0.00		−1.00	

Tag	245) α Argus AR.	Δ	Dekl.	Δ
1932	6h 22m		−52° 39′	
Jan. 0	28.640	13	21.83	345
10	28.627	85	25.28	323
20	28.542	153	28.51	292
30	28.389	214	31.43	254
Feb. 9	28.175	266	33.97	210
19	27.909	308	36.07	161
29	27.601	337	37.68	111
März 10	27.264	354	38.79	59
20	26.910	358	39.38	6
30	26.552	348	39.44	45
Apr. 9	26.204	326	38.99	96
19	25.878	295	38.03	143
29	25.583	254	36.60	187
Mai 9	25.329	205	34.73	226
19	25.124	151	32.47	261
29	24.973	93	29.86	289
Juni 8	24.880	32	26.97	309
18	24.848	29	23.88	321
28	24.877	89	20.67	324
Juli 8	24.966	148	17.43	320
18	25.114	203	14.23	305
28	25.317	254	11.18	280
Aug. 7	25.571	298	8.38	246
17	25.869	338	5.92	203
27	26.207	370	3.89	152
Sept. 6	26.577	393	2.37	95
16	26.970	408	1.42	33
26	27.378	414	1.09	30
Okt. 6	27.792	410	1.39	95
16	28.202	395	2.34	157
26	28.597	369	3.91	214
Nov. 5	28.966	334	6.05	264
15	29.300	288	8.69	305
25	29.588	233	11.74	336
Dez. 5	29.821	172	15.10	354
15	29.993	103	18.64	361
25	30.096	31	22.25	356
34	[27] 30.127		25.81	
Mittl. Ort	26.465		28.72	
sec δ, tg δ	1.649		−1.311	
a, a′	+1.3		−2.0	
b, b′	+0.01		−1.00	

Tag	246) 10 Monocerotis AR.	Δ	Dekl.	Δ
1932	6h 24m		−4° 42′	
Jan. 0	37.480	78	60.45	165
10	37.558	30	62.10	150
20	37.588	17	63.60	131
30	37.571	62	64.91	110
Feb. 9	37.509	100	66.01	88
19	37.409	132	66.89	65
29	37.277	155	67.54	42
März 10	37.122	168	67.96	20
20	36.954	171	68.16	3
30	36.783	163	68.13	24
Apr. 9	36.620	147	67.89	46
19	36.473	123	67.43	65
29	36.350	92	66.78	85
Mai 9	36.258	57	65.93	104
19	36.201	19	64.89	119
29	36.182	20	63.70	133
Juni 8	36.202	60	62.37	145
18	36.262	98	60.92	152
28	36.360	133	59.40	155
Juli 8	36.493	166	57.85	153
18	36.659	196	56.32	147
28	36.855	221	54.85	134
Aug. 7	37.076	243	53.51	117
17	37.319	261	52.34	95
27	37.580	276	51.39	67
Sept. 6	37.856	287	50.72	37
16	38.143	295	50.35	3
26	38.438	299	50.32	31
Okt. 6	38.737	300	50.63	65
16	39.037	295	51.28	98
26	39.332	285	52.26	127
Nov. 5	39.617	271	53.53	150
15	39.888	250	55.03	169
25	40.138	223	56.72	180
Dez. 5	40.361	189	58.52	185
15	40.550	151	60.37	183
25	40.701	106	62.20	176
34	[27] 40.807		63.96	
Mittl. Ort	36.105		67.58	
sec δ, tg δ	1.003		−0.083	
a, a′	+3.0		−2.1	
b, b′	0.00		−0.99	

Tag	247) 8 Lyncis AR.	Δ	Dekl.	Δ
1932	6h 31m		+61° 32′	
Jan. 0	31.86	16	44.16	223
10	32.02	5	46.39	223
20	32.07	5	48.62	214
30	32.02	13	50.76	196
Feb. 9	31.89	22	52.72	171
19	31.67	28	54.43	138
29	31.39	33	55.81	100
März 10	31.06	37	56.81	57
20	30.69	37	57.38	14
30	30.32	36	57.52	31
Apr. 9	29.96	33	57.21	72
19	29.63	29	56.49	110
29	29.34	23	55.39	144
Mai 9	29.11	15	53.95	172
19	28.96	8	52.23	193
29	28.88	0	50.30	208
Juni 8	28.88	9	48.22	217
18	28.97	16	46.05	219
28	29.13	24	43.86	217
Juli 8	29.37	31	41.69	208
18	29.68	38	39.61	196
28	30.06	43	37.65	179
Aug. 7	30.49	48	35.86	159
17	30.97	52	34.27	136
27	31.49	56	32.91	112
Sept. 6	32.05	58	31.79	85
16	32.63	60	30.94	56
26	33.23	61	30.38	27
Okt. 6	33.84	61	30.11	5
16	34.45	60	30.16	37
26	35.05	58	30.53	69
Nov. 5	35.63	55	31.22	101
15	36.18	50	32.23	131
25	36.68	45	33.54	160
Dez. 5	37.13	38	35.14	184
15	37.51	30	36.98	204
25	37.81	21	39.02	216
34	[29] 38.02		41.18	
Mittl. Ort	28.83		36.07	
sec δ, tg δ	2.099		+1.845	
a, a′	+5.5		−2.7	
b, b′	−0.02		−0.99	

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Tag	249) ξ² Canis maj. AR.		Dekl.		251) γ Geminorum AR.		Dekl.	
1932	6h 32m		−22° 54′		6h 33m		+16° 27′	
Jan. 0	13.813	65	28.19	259	48.528	105	39.02	42
10	13.878	14	30.78	241	48.633	55	38.60	31
20	13.892	36	33.19	217	48.688	4	38.29	21
30	13.856	82	35.36	187	48.692	44	38.08	11
Feb. 9	13.774	122	37.23	155	48.648	86	37.97	4
19	13.652	157	38.78	119	48.562	122	37.93	2
29	13.495	181	39.97	82	48.440	149	37.95	5
März 10	13.314	195	40.79	45	48.291	164	38.00	7
20	13.119	199	41.24	7	48.127	168	38.07	8
30	12.920	193	41.31	29	47.959	162	38.15	9
Apr. 9	12.727	178	41.02	65	47.797	146	38.24	9
19	12.549	154	40.37	100	47.651	122	38.33	10
29	12.395	124	39.37	131	47.529	90	38.43	12
Mai 9	12.271	89	38.06	160	47.439	54	38.55	15
19	12.182	51	36.46	186	47.385	14	38.70	18
29	12.131	10	34.60	208	47.371	27	38.88	23
Juni 8	12.121	32	32.52	224	47.398	69	39.11	27
18	12.153	72	30.28	234	47.467	108	39.38	30
28	12.225	110	27.94	238	47.575	144	39.68	33
Juli 8	12.335	147	25.56	235	47.719	178	40.01	34
18	12.482	181	23.21	225	47.897	209	40.35	34
28	12.663	211	20.96	208	48.106	235	40.69	30
Aug. 7	12.874	237	18.88	182	48.341	258	40.99	24
17	13.111	259	17.06	150	48.599	277	41.23	16
27	13.370	278	15.56	112	48.876	292	41.39	6
Sept. 6	13.648	293	14.44	68	49.168	304	41.45	7
16	13.941	303	13.76	21	49.472	313	41.38	20
26	14.244	308	13.55	29	49.785	319	41.18	34
Okt. 6	14.552	309	13.84	79	50.104	321	40.84	47
16	14.861	305	14.63	126	50.425	319	40.37	59
26	15.166	295	15.89	169	50.744	312	39.78	68
Nov. 5	15.461	277	17.58	207	51.056	299	39.10	74
15	15.738	253	19.65	237	51.355	279	38.36	76
25	15.991	223	22.02	260	51.634	254	37.60	74
Dez. 5	16.214	186	24.62	271	51.888	220	36.86	69
15	16.400	143	27.33	275	52.108	180	36.17	61
25	16.543	96	30.08	270	52.288	135	35.56	52
34	[29] 16.639		32.78		[30] 52.423		35.04	
Mittl. Ort	12.356		35.38		47.065		31.79	
sec δ, tg δ	1.086		−0.423		1.043		+0.295	
a, a'	+2.5		−2.8		+3.5		−2.9	
b, b'	0.00		−0.99		0.00		−0.99	

Tag	250) 51 Aurigae AR.		Dekl.		248) 23 H. Camelop. AR.		Dekl.	
1932	6h 33m		+39° 27′		6h 34m		+79° 38′	
Jan. 0	58.777	125	16.75	101	47.86	26	41.26	297
10	58.902	64	17.76	106	48.12	0	44.23	295
20	58.966	1	18.82	107	48.12	25	47.18	280
30	58.967	58	19.89	103	47.87	47	49.98	256
Feb. 9	58.909	110	20.92	92	47.40	68	52.54	221
19	58.799	155	21.84	78	46.72	85	54.75	177
29	58.644	187	22.62	59	45.87	97	56.52	127
März 10	58.457	206	23.21	38	44.90	105	57.79	72
20	58.251	213	23.59	14	43.85	108	58.51	15
30	58.038	206	23.73	9	42.77	106	58.66	41
Apr. 9	57.832	186	23.64	32	41.71	99	58.25	95
19	57.646	156	23.32	52	40.72	88	57.30	146
29	57.490	117	22.80	69	39.84	74	55.84	189
Mai 9	57.373	72	22.11	83	39.10	56	53.95	226
19	57.301	23	21.28	94	38.54	37	51.69	255
29	57.278	28	20.34	101	38.17	17	49.14	276
Juni 8	57.306	78	19.33	104	38.00	5	46.38	289
18	57.384	128	18.29	104	38.05	25	43.49	293
28	57.512	174	17.25	101	38.30	46	40.56	291
Juli 8	57.686	217	16.24	97	38.76	66	37.65	280
18	57.903	255	15.27	92	39.42	84	34.85	264
28	58.158	288	14.35	85	40.26	100	32.21	242
Aug. 7	58.446	316	13.50	77	41.26	114	29.79	216
17	58.762	340	12.73	69	42.40	126	27.63	184
27	59.102	360	12.04	61	43.66	136	25.79	148
Sept. 6	59.462	375	11.43	52	45.02	144	24.31	111
16	59.837	386	10.91	43	46.46	149	23.20	70
26	60.223	393	10.48	33	47.95	152	22.50	28
Okt. 6	60.616	394	10.15	23	49.47	152	22.22	17
16	61.010	392	9.92	11	50.99	148	22.39	61
26	61.402	382	9.81	3	52.47	143	23.00	105
Nov. 5	61.784	366	9.84	17	53.90	133	24.05	148
15	62.150	341	10.01	34	55.23	120	25.53	189
25	62.491	309	10.35	50	56.43	105	27.42	224
Dez. 5	62.800	267	10.85	65	57.48	85	29.66	255
15	63.067	218	11.50	80	58.33	64	32.21	278
25	63.285	163	12.30	93	58.97	40	34.99	291
34	[30] 63.448		13.23		[30] 59.37		37.90	
Mittl. Ort	56.923		9.27		39.77		33.04	
sec δ, tg δ	1.295		+0.823		5.562		+5.471	
a, a'	+4.2		−3.0		+10.3		−3.0	
b, b'	−0.01		−0.99		−0.05		−0.99	

Tag	252) ν Argus AR.		252) ν Argus Dekl.		253) S Monocerotis AR.		253) S Monocerotis Dekl.		254) ε Geminorum AR.		254) ε Geminorum Dekl.		256) ξ Geminorum AR.		256) ξ Geminorum Dekl.	
1932	6h 35m		−43° 7′		6h 37m		+9° 57′		6h 39m		+25° 12′		6h 41m		+12° 58′	
Jan. 0*)	° 42.598	35	60.85	332	° 15.456	104	43.45	83	[1] 46.574	119	7.36	11	[1] 29.862	110	20.17	67
10	42.633	27	64.17	312	15.560	53	42.62	71	46.693	65	7.47	22	29.972	60	19.50	54
20	42.606	87	67.29	285	15.613	5	41.91	57	46.758	12	7.69	29	30.032	9	18.96	42
30	42.519	142	70.14	250	15.618	42	41.34	44	46.770	40	7.98	33	30.041	38	18.54	29
Feb. 9	42.377	190	72.64	210	15.576	84	40.90	31	46.730	87	8.31	35	30.003	81	18.25	19
19	42.187	229	74.74	165	15.492	119	40.59	20	46.643	125	8.66	33	29.922	117	18.06	10
29	41.958	258	76.39	118	15.373	145	40.39	11	46.518	154	8.99	28	29.805	143	17.96	3
März 10	41.700	274	77.57	70	15.228	160	40.28	2	46.364	171	9.27	22	29.662	161	17.93	3
20	41.426	280	78.27	20	15.068	165	40.26	6	46.193	178	9.49	14	29.501	166	17.96	7
30	41.146	275	78.47	28	14.903	160	40.32	14	46.015	173	9.63	5	29.335	161	18.03	12
Apr. 9	40.871	258	78.19	75	14.743	145	40.46	20	45.842	156	9.68	4	29.174	147	18.15	15
19	40.613	232	77.44	121	14.598	122	40.66	27	45.686	131	9.64	11	29.027	124	18.30	20
29	40.381	198	76.23	163	14.476	91	40.93	34	45.555	99	9.53	17	28.903	94	18.50	24
Mai 9	40.183	158	74.60	201	14.385	57	41.27	42	45.456	61	9.36	21	28.809	59	18.74	29
19	40.025	114	72.59	235	14.328	18	41.69	50	45.395	19	9.15	24	28.750	21	19.03	34
29	39.911	65	70.24	263	14.310	21	42.19	57	45.376	24	8.91	24	28.729	19	19.37	39
Juni 8	39.846	14	67.61	284	14.331	61	42.76	62	45.400	67	8.67	24	28.748	59	19.76	45
18	39.832	35	64.77	298	14.392	99	43.38	67	45.467	109	8.43	22	28.807	97	20.21	48
28	39.867	85	61.79	304	14.491	135	44.05	70	45.576	148	8.21	21	28.904	134	20.69	50
Juli 8	39.952	133	58.75	300	14.626	168	44.75	70	45.724	184	8.00	19	29.038	167	21.19	50
18	40.085	178	55.75	289	14.794	198	45.45	67	45.908	217	7.81	18	29.205	197	21.69	49
28	40.263	219	52.86	267	14.992	224	46.12	61	46.125	245	7.63	17	29.402	224	22.18	44
Aug. 7	40.482	257	50.19	237	15.216	246	46.73	52	46.370	269	7.46	19	29.626	247	22.62	36
17	40.739	289	47.82	198	15.462	265	47.25	39	46.639	290	7.27	21	29.873	267	22.98	25
27	41.028	316	45.84	151	15.727	281	47.64	23	46.929	307	7.06	24	30.140	282	23.23	11
Sept. 6	41.344	338	44.33	98	16.008	294	47.87	5	47.236	322	6.82	29	30.422	296	23.34	4
16	41.682	352	43.35	40	16.302	303	47.92	15	47.558	331	6.53	34	30.718	306	23.30	21
26	42.034	360	42.95	21	16.605	309	47.77	35	47.889	338	6.19	39	31.024	312	23.09	38
Okt. 6	42.394	361	43.16	82	16.914	311	47.42	55	48.227	341	5.80	43	31.336	316	22.71	55
16	42.755	353	43.98	141	17.225	310	46.87	73	48.568	340	5.37	46	31.652	315	22.16	70
26	43.108	337	45.39	197	17.535	303	46.14	89	48.908	333	4.91	46	31.967	309	21.46	83
Nov. 5	43.445	312	47.36	246	17.838	291	45.25	100	49.241	320	4.45	43	32.276	297	20.63	92
15	43.757	278	49.82	286	18.129	273	44.25	108	49.561	302	4.02	38	32.573	279	19.71	97
25	44.035	237	52.68	317	18.402	247	43.17	110	49.863	274	3.64	31	32.852	255	18.74	97
Dez. 5	44.272	187	55.85	336	18.649	215	42.07	109	50.137	240	3.33	20	33.107	222	17.77	93
15	44.459	132	59.21	345	18.864	176	40.98	102	50.377	198	3.13	10	33.329	183	16.84	87
25	44.591	72	62.66	341	19.040	132	39.96	93	50.575	150	3.03	1	33.512	139	15.97	76
34	[30] 44.663		66.07		[31] 19.172		39.03		[31] 50.725		3.04		[32] 33.651		15.21	
Mittl. Ort	40.806		68.42		14.041		36.34		45.005		0.32		28.425		13.17	
sec δ, tg δ	1.370		−0.937		1.015		+0.176		1.105		+0.471		1.026		+0.230	
a, a′	+1.8		−3.1		+3.3		−3.2		+3.7		−3.5		+3.4		−3.6	
b, b′	+0.01		−0.99		0.00		−0.99		−0.01		−0.98		0.00		−0.98	

*) Bei Stern 254) und 256) lies Jan. 1

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Tag	257) α Canis maj.[1] AR.		Dekl.		258) 18 Monocerotis AR.		Dekl.	
1932	$6^h\ 42^m$		$-16°\ 37'$		$6^h\ 44^m$		$+2°\ 29'$	
	s		"		s		"	
Jan. 1	^{2}10.454	78	13.27	237	^{2}20.357	104	23.29	131
10	10.532	28	15.64	219	20.461	55	21.98	116
20	10.560	21	17.83	196	20.516	6	20.82	100
30	10.539	67	19.79	169	20.522	40	19.82	82
Feb. 9	10.472	108	21.48	140	20.482	82	19.00	65
19	10.364	141	22.88	108	20.400	117	18.35	47
29	10.223	166	23.96	76	20.283	143	17.88	30
März 10	10.057	181	24.72	42	20.140	159	17.58	13
20	9.876	186	25.14	10	19.981	165	17.45	1
30	9.690	181	25.24	22	19.816	160	17.46	16
Apr. 9	9.509	166	25.02	52	19.656	147	17.62	31
19	9.343	144	24.50	83	19.509	126	17.93	44
29	9.199	115	23.67	110	19.383	97	18.37	57
Mai 9	9.084	81	22.57	135	19.286	64	18.94	70
19	9.003	44	21.22	158	19.222	28	19.64	82
29	8.959	5	19.64	176	19.194	11	20.46	92
Juni 8	8.954	35	17.88	191	19.205	49	21.38	101
18	8.989	73	15.97	200	19.254	86	22.39	106
28	9.062	111	13.97	205	19.340	122	23.45	110
Juli 8	9.173	146	11.92	202	19.462	154	24.55	109
18	9.319	177	9.90	193	19.616	185	25.64	105
28	9.496	206	7.97	177	19.801	211	26.69	95
Aug. 7	9.702	231	6.20	155	20.012	233	27.64	82
17	9.933	252	4.65	126	20.245	254	28.46	65
27	10.185	270	3.39	91	20.499	270	29.11	44
Sept. 6	10.455	285	2.48	52	20.769	284	29.55	19
16	10.740	295	1.96	10	21.053	295	29.74	8
26	11.035	302	1.86	35	21.348	301	29.66	35
Okt. 6	11.337	303	2.21	79	21.649	305	29.31	64
16	11.640	300	3.00	123	21.954	304	28.67	89
26	11.940	292	4.23	161	22.258	299	27.78	111
Nov. 5	12.232	278	5.84	195	22.557	287	26.67	130
15	12.510	256	7.79	222	22.844	270	25.37	143
25	12.766	228	10.01	241	23.114	245	23.94	151
Dez. 5	12.994	193	12.42	251	23.359	213	22.43	153
15	13.187	152	14.93	252	23.572	175	20.90	149
25	13.339	108	17.45	248	23.747	132	19.41	141
34	^{32}13.447		19.93		^{32}23.879		18.00	
Mittl. Ort	9.052		20.38		18.975		16.25	
sec δ, tg δ	1.044		−0.299		1.001		+0.043	
a, *a'*	+2.7		−3.7		+3.1		−3.9	
b, *b'*	0.00		−0.98		0.00		−0.98	

Tag	262) α Pictoris AR.		Dekl.		261) ϑ Geminorum AR.		Dekl.	
1932	$6^h\ 47^m$		$-61°\ 51'$		$6^h\ 48^m$		$+34°\ 2'$	
	s		"		s		"	
Jan. 1	^{3}32.37	1	56.36	366	^{3}20.319	137	48.23	64
10	32.36	10	60.02	350	20.456	79	48.87	74
20	32.26	19	63.52	324	20.535	20	49.61	79
30	32.07	27	66.76	289	20.555	38	50.40	79
Feb. 9	31.80	34	69.65	249	20.517	88	51.19	76
19	31.46	40	72.14	202	20.429	132	51.95	68
29	31.06	44	74.16	152	20.297	165	52.63	56
März 10	30.62	47	75.68	100	20.132	186	53.19	40
20	30.15	48	76.68	46	19.946	195	53.59	22
30	29.67	47	77.14	7	19.751	191	53.81	5
Apr. 9	29.20	46	77.07	60	19.560	175	53.86	13
19	28.74	43	76.47	111	19.385	150	53.73	29
29	28.31	38	75.36	159	19.235	116	53.44	44
Mai 9	27.93	33	73.77	203	19.119	75	53.00	55
19	27.60	27	71.74	242	19.044	32	52.45	65
29	27.33	20	69.32	274	19.012	15	51.80	71
Juni 8	27.13	13	66.58	301	19.027	61	51.09	74
18	27.00	5	63.57	319	19.088	107	50.35	76
28	26.95	2	60.38	329	19.195	150	49.59	76
Juli 8	26.97	10	57.09	329	19.345	189	48.83	74
18	27.07	18	53.80	319	19.534	226	48.09	71
28	27.25	25	50.61	299	19.760	257	47.38	68
Aug. 7	27.50	31	47.62	269	20.017	285	46.70	65
17	27.81	37	44.93	231	20.302	309	46.05	62
27	28.18	43	42.62	182	20.611	329	45.43	59
Sept. 6	28.61	46	40.80	127	20.940	345	44.84	56
16	29.07	49	39.53	65	21.285	358	44.28	53
26	29.56	51	38.88	1	21.643	367	43.75	49
Okt. 6	30.07	51	38.87	66	22.010	371	43.26	43
16	30.58	50	39.53	131	22.381	371	42.83	37
26	31.08	47	40.84	192	22.752	365	42.46	28
Nov. 5	31.55	43	42.76	248	23.117	353	42.18	17
15	31.98	37	45.24	296	23.470	333	42.01	4
25	32.35	31	48.20	332	23.803	304	41.97	10
Dez. 5	32.66	23	51.52	358	24.107	267	42.07	25
15	32.89	14	55.10	372	24.374	223	42.32	40
25	33.03	5	58.82	374	24.597	171	42.72	54
34	^{33}33.08		62.56		^{33}24.768		43.26	
Mittl. Ort	29.70		65.14		18.578		41.65	
sec δ, tg δ	2.121		−1.870		1.207		+0.676	
a, *a'*	+0.6		−4.1		+4.0		−4.2	
b, *b'*	+0.03		−0.98		−0.01		−0.98	

[1] Ort des Hauptsterns; die jährliche Parallaxe (0."38) ist bereits berücksichtigt.

Tag	266) ϑ Canis maj. AR.		Dekl.		265) 15 Lyncis AR.		Dekl.	
1932	6h 51m		−11° 56′		6h 51m		+58° 30′	
Jan. 1	[4] 3.215	96	60.67	214	[4] 26.514	183	57.42	204
10	3.311	47	62.81	198	26.697	92	59.46	209
20	3.358	2	64.79	177	26.789	1	61.55	206
30	3.356	48	66.56	153	26.790	85	63.61	195
Feb. 9	3.308	91	68.09	127	26.705	164	65.56	175
19	3.217	126	69.36	99	26.541	232	67.31	148
29	3.091	152	70.35	70	26.309	283	68.79	115
März 10	2.939	170	71.05	41	26.026	316	69.94	77
20	2.769	176	71.46	12	25.710	332	70.71	36
30	2.593	173	71.58	16	25.378	329	71.07	6
Apr. 9	2.420	161	71.42	43	25.049	307	71.01	46
19	2.259	141	70.99	70	24.742	270	70.55	84
29	2.118	114	70.29	94	24.472	221	69.71	118
Mai 9	2.004	82	69.35	117	24.251	160	68.53	147
19	1.922	47	68.18	138	24.091	93	67.06	172
29	1.875	9	66.80	155	23.998	22	65.34	189
Juni 8	1.866	29	65.25	168	23.976	51	63.45	201
18	1.895	67	63.57	178	24.027	123	61.44	208
28	1.962	103	61.79	183	24.150	192	59.36	209
Juli 8	2.065	137	59.96	183	24.342	258	57.27	205
18	2.202	167	58.13	175	24.600	317	55.22	197
28	2.369	197	56.38	162	24.917	371	53.25	185
Aug. 7	2.566	221	54.76	143	25.288	419	51.40	170
17	2.787	243	53.33	117	25.707	459	49.70	152
27	3.030	262	52.16	86	26.166	494	48.18	131
Sept. 6	3.292	278	51.30	50	26.660	521	46.87	108
16	3.570	290	50.80	13	27.181	543	45.79	83
26	3.860	299	50.67	28	27.724	557	44.96	56
Okt. 6	4.159	303	50.95	69	28.281	563	44.40	28
16	4.462	302	51.64	109	28.844	561	44.12	3
26	4.764	297	52.73	144	29.405	550	44.15	33
Nov. 5	5.061	285	54.17	176	29.955	527	44.48	65
15	5.346	266	55.93	200	30.482	492	45.13	97
25	5.612	241	57.93	218	30.974	446	46.10	127
Dez. 5	5.853	209	60.11	227	31.420	387	47.37	153
15	6.062	169	62.38	229	31.807	316	48.90	177
25	6.231	125	64.67	223	32.123	234	50.67	194
34*)	[34] 6.356		66.90		[34] 32.357		52.61	
Mittl. Ort	1.840		68.03		23.679		51.05	
sec δ, tg δ	1.022		−0.212		1.915		+1.633	
a, a'	+2.8		−4.4		+5.2		−4.5	
b, b'	0.00		−0.98		−0.02		−0.97	

Tag	268) ε Canis maj. AR.		Dekl.		269) ζ Geminorum AR.		Dekl.	
1932	6h 55m		−28° 52′		7h 0m		+20° 40′	
Jan. 1	[5] 58.639	83	34.55	293	[6] 6.173	135	24.01	23
10	58.722	29	37.48	278	6.308	84	23.78	11
20	58.751	24	40.26	254	6.392	31	23.67	1
30	58.727	74	42.80	224	6.423	22	23.68	11
Feb. 9	58.653	119	45.04	191	6.401	68	23.79	18
19	58.534	157	46.95	154	6.333	108	23.97	21
29	58.377	185	48.49	114	6.225	139	24.18	23
März 10	58.192	204	49.63	73	6.086	159	24.41	22
20	57.988	213	50.36	31	5.927	169	24.63	19
30	57.775	210	50.67	9	5.758	168	24.82	15
Apr. 9	57.565	199	50.58	49	5.590	156	24.97	10
19	57.366	179	50.09	88	5.434	134	25.07	7
29	57.187	152	49.21	124	5.300	106	25.14	3
Mai 9	57.035	118	47.97	158	5.194	73	25.17	0
19	56.917	82	46.39	187	5.121	34	25.17	1
29	56.835	42	44.52	213	5.087	6	25.16	1
Juni 8	56.793	0	42.39	233	5.093	46	25.15	1
18	56.793	40	40.06	246	5.139	85	25.14	1
28	56.833	81	37.60	254	5.224	124	25.13	1
Juli 8	56.914	120	35.06	254	5.348	158	25.12	1
18	57.034	156	32.52	245	5.506	190	25.11	2
28	57.190	190	30.07	230	5.696	219	25.09	5
Aug. 7	57.380	221	27.77	205	5.915	245	25.04	10
17	57.601	247	25.72	173	6.160	266	24.94	16
27	57.848	272	23.99	134	6.426	286	24.78	24
Sept. 6	58.120	291	22.65	88	6.712	301	24.54	33
16	58.411	306	21.77	38	7.013	315	24.21	43
26	58.717	317	21.39	14	7.328	324	23.78	53
Okt. 6	59.034	322	21.53	68	7.652	331	23.25	61
16	59.356	321	22.21	121	7.983	333	22.63	69
26	59.677	313	23.42	170	8.316	331	21.94	73
Nov. 5	59.990	299	25.12	213	8.647	321	21.21	75
15	60.289	276	27.25	250	8.968	305	20.46	73
25	60.565	247	29.75	277	9.273	281	19.73	67
Dez. 5	60.812	209	32.52	295	9.554	250	19.06	59
15	61.021	164	35.47	303	9.804	212	18.47	47
25	61.185	115	38.50	302	10.016	165	18.00	34
34*)	[35] 61.300		41.52		[36] 10.181		17.66	
Mittl. Ort	57.155		42.62		4.652		17.79	
sec δ, tg δ	1.142		−0.552		1.069		+0.377	
a, a'	+2.4		−4.8		+3.6		−5.2	
b, b'	+0.01		−0.97		−0.01		−0.97	

*) Bei Stern 268) und 269) lies Dez. 35

Scheinbare Sternörter 1932

Tag	271) γ Canis maj.				273) δ Canis maj.				274) 63 Aurigae				277) λ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$7^h\ 0^m$		$-15°\ 31'$		$7^h\ 5^m$		$-26°\ 16'$		$7^h\ 6^m$		$+39°\ 25'$		$7^h\ 14^m$		$+16°\ 39'$	
	s		"		s		"		s		"		s		"	
Jan. 1	(6) 42.334	103	46.42	235	(8) 38.978	96	54.84	287	(8) 60.815	166	65.05	92	(10) 12.670	146	57.86	54
10	42.437	52	48.77	220	39.074	44	57.71	271	60.981	105	65.97	103	12.816	95	57.32	39
20	42.489	3	50.97	199	39.118	9	60.42	249	61.086	40	67.00	110	12.911	42	56.93	25
30	42.492	44	52.96	174	39.109	59	62.91	222	61.126	22	68.10	112	12.953	8	56.68	12
Feb. 9	42.448	88	54.70	146	39.050	104	65.13	189	61.104	79	69.22	107	12.945	56	56.56	1
19	42.360	125	56.16	115	38.946	143	67.02	153	61.025	129	70.29	96	12.889	97	56.55	8
29	42.235	153	57.31	84	38.803	173	68.55	116	60.896	167	71.25	82	12.792	128	56.63	13
März 10	42.082	171	58.15	53	38.630	192	69.71	77	60.729	194	72.07	62	12.664	151	56.76	17
20	41.911	180	58.68	21	38.438	203	70.48	37	60.535	207	72.69	40	12.513	163	56.93	18
30	41.731	179	58.89	10	38.235	202	70.85	2	60.328	208	73.09	17	12.350	164	57.11	18
Apr. 9	41.552	168	58.79	40	38.033	192	70.83	40	60.120	195	73.26	7	12.186	154	57.29	18
19	41.384	149	58.39	69	37.841	174	70.43	77	59.925	172	73.19	29	12.032	136	57.47	18
29	41.235	123	57.70	97	37.667	149	69.66	112	59.753	140	72.90	51	11.896	110	57.65	17
Mai 9	41.112	93	56.73	122	37.518	117	68.54	145	59.613	99	72.39	68	11.786	79	57.82	16
19	41.019	57	55.51	145	37.401	82	67.09	174	59.514	55	71.71	83	11.707	44	57.98	17
29	40.962	21	54.06	165	37.319	44	65.35	198	59.459	8	70.88	95	11.663	7	58.15	18
Juni 8	40.941	16	52.41	180	37.275	4	63.37	219	59.451	41	69.93	104	11.656	32	58.33	19
18	40.957	54	50.61	191	37.271	35	61.18	233	59.492	89	68.89	109	11.688	70	58.52	19
28	41.011	91	48.70	197	37.306	74	58.85	241	59.581	135	67.80	112	11.758	106	58.71	19
Juli 8	41.102	126	46.73	196	37.380	112	56.44	241	59.716	178	66.68	112	11.864	140	58.90	18
18	41.228	157	44.77	190	37.492	148	54.03	235	59.894	217	65.56	111	12.004	172	59.08	14
28	41.385	187	42.87	177	37.640	181	51.68	220	60.111	254	64.45	109	12.176	201	59.22	10
Aug. 7	41.572	214	41.10	157	37.821	211	49.48	198	60.365	285	63.36	104	12.377	226	59.32	3
17	41.786	237	39.53	130	38.032	238	47.50	167	60.650	313	62.32	99	12.603	249	59.35	7
27	42.023	258	38.23	98	38.270	262	45.83	131	60.963	337	61.33	94	12.852	270	59.28	18
Sept. 6	42.281	276	37.25	61	38.532	283	44.52	87	61.300	358	60.39	87	13.122	287	59.10	31
16	42.557	289	36.64	19	38.815	299	43.65	39	61.658	374	59.52	80	13.409	302	58.79	45
26	42.846	300	36.45	24	39.114	310	43.26	12	62.032	387	58.72	71	13.711	314	58.34	59
Okt. 6	43.146	305	36.69	68	39.424	318	43.38	63	62.419	396	58.01	60	14.025	322	57.75	72
16	43.451	307	37.37	110	39.742	319	44.01	115	62.815	399	57.41	48	14.347	327	57.03	83
26	43.758	302	38.47	150	40.061	314	45.16	163	63.214	396	56.93	34	14.674	326	56.20	93
Nov. 5	44.060	292	39.97	184	40.375	302	46.79	205	63.610	386	56.59	17	15.000	320	55.27	97
15	44.352	273	41.81	212	40.677	281	48.84	241	63.996	367	56.42	2	15.320	306	54.30	99
25	44.625	248	43.93	233	40.958	254	51.25	269	64.363	340	56.44	22	15.626	285	53.31	96
Dez. 5	44.873	216	46.26	244	41.212	219	53.94	286	64.703	302	56.66	42	15.911	255	52.35	88
15	45.089	176	48.70	249	41.431	176	56.80	295	65.005	257	57.08	62	16.166	219	51.47	78
25	45.265	132	51.19	245	41.607	128	59.75	294	65.262	202	57.70	79	16.385	175	50.69	65
35	45.397		53.64		41.735		62.69		65.464		58.49		16.560		50.04	
Mittl. Ort	40.958		54.02		37.540		63.08		58.913		59.72		11.198		52.03	
sec δ, tg δ	1.038		−0.278		1.115		−0.494		1.295		+0.822		1.044		+0.299	
a, a'	+2.7		−5.2		+2.4		−5.7		+4.1		−5.8		+3.5		−6.4	
b, b'	0.00		−0.97		+0.01		−0.96		−0.02		−0.96		−0.01		−0.95	

Tag	278) π Argus AR.	Δ	278) π Argus Dekl.	Δ	279) δ Geminorum AR.	Δ	279) δ Geminorum Dekl.	Δ	281) δ Volantis AR.	Δ	281) δ Volantis Dekl.	Δ	280) 19 Lyncis sq. AR.	Δ	280) 19 Lyncis sq. Dekl.	Δ
1932	$7^h 14^m$		−36° 58′		$7^h 16^m$		+22° 6′		$7^h 16^m$		−67° 49′		$7^h 17^m$		+55° 24′	
Jan. 1	10 45.968	95	18.99	329	10 5.395	154	38.37	20	10 55.39	3	47.41	379	22.265	217	45.82	179
10*)	46.063	37	22.28	316	5.549	101	38.17	6	55.42	8	51.20	370	11 22.482	134	47.61	191
20	46.100	22	25.44	294	5.650	47	38.11	8	55.34	20	54.90	351	22.616	50	49.52	195
30	46.078	76	28.38	265	5.697	6	38.19	19	55.14	30	58.41	323	22.666	34	51.47	192
Feb. 9	46.002	126	31.03	231	5.691	55	38.38	26	54.84	39	61.64	287	22.632	111	53.39	179
19	45.876	169	33.34	191	5.636	98	38.64	31	54.45	47	64.51	246	22.521	179	55.18	159
29	45.707	203	35.25	150	5.538	132	38.95	32	53.98	53	66.97	199	22.342	233	56.77	132
März 10	45.504	226	36.75	105	5.406	154	39.27	30	53.45	58	68.96	148	22.109	272	58.09	99
20	45.278	237	37.80	60	5.252	167	39.57	27	52.87	60	70.44	97	21.837	294	59.08	63
30	45.041	240	38.40	14	5.085	169	39.84	21	52.27	61	71.41	43	21.543	298	59.71	24
Apr. 9	44.801	231	38.54	31	4.916	159	40.05	15	51.66	60	71.84	11	21.245	287	59.95	15
19	44.570	214	38.23	74	4.757	141	40.20	8	51.06	57	71.73	64	20.958	259	59.80	52
29	44.356	188	37.49	116	4.616	115	40.28	3	50.49	53	71.09	115	20.699	221	59.28	87
Mai 9	44.168	157	36.33	154	4.501	83	40.31	2	49.96	48	69.94	162	20.478	170	58.41	118
19	44.011	120	34.79	190	4.418	46	40.29	6	49.48	41	68.32	205	20.308	113	57.23	144
29	43.891	80	32.89	220	4.372	8	40.23	9	49.07	34	66.27	245	20.195	51	55.79	166
Juni 8	43.811	37	30.69	244	4.364	32	40.14	10	48.73	25	63.82	276	20.144	13	54.13	183
18	43.774	6	28.25	263	4.396	71	40.04	12	48.48	16	61.06	301	20.157	78	52.30	193
28	43.780	50	25.62	274	4.467	108	39.92	13	48.32	7	58.05	318	20.235	141	50.37	200
Juli 8	43.830	92	22.88	277	4.575	144	39.79	16	48.25	2	54.87	325	20.376	200	48.37	202
18	43.922	134	20.11	271	4.719	177	39.63	17	48.27	12	51.62	323	20.576	257	46.35	199
28	44.056	172	17.40	256	4.896	207	39.46	21	48.39	22	48.39	310	20.833	308	44.36	192
Aug. 7	44.228	209	14.84	234	5.103	233	39.25	26	48.61	30	45.29	287	21.141	355	42.44	183
17	44.437	243	12.50	202	5.336	257	38.99	32	48.91	39	42.42	254	21.496	396	40.61	170
27	44.680	272	10.48	162	5.593	278	38.67	40	49.30	46	39.88	211	21.892	431	38.91	154
Sept. 6	44.952	297	8.86	115	5.871	297	38.27	48	49.76	53	37.77	160	22.323	462	37.37	136
16	45.249	318	7.71	62	6.168	312	37.79	57	50.29	58	36.17	102	22.785	488	36.01	116
26	45.567	334	7.09	6	6.480	324	37.22	66	50.87	60	35.15	39	23.273	507	34.85	92
Okt. 6	45.901	343	7.03	53	6.804	334	36.56	73	51.47	62	34.76	28	23.780	520	33.93	67
16	46.244	345	7.56	111	7.138	338	35.83	79	52.09	63	35.04	94	24.300	525	33.26	39
26	46.589	339	8.67	166	7.476	338	35.04	82	52.72	60	35.98	159	24.825	522	32.87	10
Nov. 5	46.928	326	10.33	216	7.814	331	34.22	82	53.32	55	37.57	219	25.347	508	32.77	21
15	47.254	303	12.49	259	8.145	318	33.40	77	53.87	49	39.76	269	25.855	484	32.98	54
25	47.557	271	15.08	293	8.463	297	32.63	70	54.36	42	42.45	319	26.339	447	33.52	85
Dez. 5	47.828	230	18.01	318	8.760	266	31.93	60	54.78	32	45.64	349	26.786	397	34.37	115
15	48.058	184	21.19	331	9.026	229	31.33	47	55.10	21	49.13	371	27.183	337	35.52	143
25	48.242	131	24.50	334	9.255	183	30.86	32	55.31	11	52.84	381	27.520	265	36.95	165
35	48.373		27.84		9.438		30.54		55.42		56.65		27.785		38.60	
Mittl. Ort	44.417		28.18		3.856		32.90		52.31		58.46		19.607		41.63	
sec δ, tg δ	1.252		−0.753		1.079		+0.406		2.650		−2.454		1.762		+1.450	
a, *a′*	+2.1		−6.4		+3.6		−6.5		0.0		−6.6		+4.9		−6.6	
b, *b′*	+0.02		−0.95		−0.01		−0.95		+0.05		−0.94		−0.03		−0.94	

*) Bei Stern 280) lies Jan. 11

Tag	282) ι Geminorum AR.		282) ι Geminorum Dekl.		285) β Canis min. AR.		285) β Canis min. Dekl.	
1932	$7^h\ 21^m$		$+27°\ 56'$		$7^h\ 23^m$		$+8°\ 25'$	
	s		"		s		"	
Jan. 1	32.021	166	10.32	15	29.261	147	45.82	108
11	32.187	112	10.47	30	29.408	97	44.74	93
20	32.299	54	10.77	42	29.505	47	43.81	76
30	32.353	1	11.19	51	29.552	3	43.05	59
Feb. 9	32.352	53	11.70	56	29.549	50	42.46	43
19	32.299	99	12.26	57	29.499	90	42.03	28
29	32.200	135	12.83	52	29.409	121	41.75	14
März 10	32.065	160	13.35	47	29.288	144	41.61	3
20	31.905	174	13.82	37	29.144	157	41.58	7
30	31.731	177	14.19	25	28.987	159	41.65	16
Apr. 9	31.554	169	14.44	13	28.828	151	41.81	24
19	31.385	151	14.57	0	28.677	136	42.05	31
29	31.234	124	14.57	11	28.541	112	42.36	37
Mai 9	31.110	91	14.46	21	28.429	84	42.73	44
19	31.019	54	14.25	30	28.345	51	43.17	51
29	30.965	14	13.95	37	28.294	16	43.68	55
Juni 8	30.951	27	13.58	42	28.278	21	44.23	60
18	30.978	68	13.16	46	28.299	56	44.83	63
28	31.046	108	12.70	49	28.355	91	45.46	64
Juli 8	31.154	145	12.21	52	28.446	124	46.10	63
18	31.299	179	11.69	53	28.570	154	46.73	58
28	31.478	211	11.16	56	28.724	183	47.31	51
Aug. 7	31.689	239	10.60	59	28.907	209	47.82	41
17	31.928	264	10.01	62	29.116	232	48.23	26
27	32.192	288	9.39	66	29.348	253	48.49	10
Sept. 6	32.480	307	8.73	70	29.601	271	48.59	10
16	32.787	324	8.03	73	29.872	287	48.49	31
26	33.111	338	7.30	76	30.159	300	48.18	54
Okt. 6	33.449	348	6.54	78	30.459	310	47.64	75
16	33.797	354	5.76	78	30.769	315	46.89	95
26	34.151	355	4.98	74	31.084	317	45.94	113
Nov. 5	34.506	349	4.24	68	31.401	312	44.81	126
15	34.855	335	3.56	59	31.713	299	43.55	135
25	35.190	313	2.97	47	32.012	279	42.20	138
Dez. 5	35.503	283	2.50	31	32.291	252	40.82	136
15	35.786	244	2.19	15	32.543	217	39.46	130
25	36.030	198	2.04	2	32.760	175	38.16	119
35	36.228		2.06		32.935		36.97	
Mittl. Ort	30.387		5.43		27.869		39.79	
sec δ, tg δ	1.132		+0.530		1.011		+0.148	
a, *a'*	+3.7		−7.0		+3.3		−7.1	
b, *b'*	−0.01		−0.94		0.00		−0.93	

Tag	284) Grb 1308 AR.		284) Grb 1308 Dekl.		286) ρ Geminorum AR.		286) ρ Geminorum Dekl.	
1932	$7^h\ 23^m$		$+68°\ 36'$		$7^h\ 24^m$		$+31°\ 55'$	
	s		"		s		"	
Jan. 1	53.53	31	29.09	240	46.167	176	21.74	39
11	53.84	17	31.49	253	46.343	119	22.13	55
20	54.01	5	34.02	255	46.462	60	22.68	66
30	54.06	7	36.57	247	46.522	1	23.34	74
Feb. 9	53.99	20	39.04	230	46.523	52	24.08	78
19	53.79	30	41.34	203	46.471	100	24.86	75
29	53.49	38	43.37	166	46.371	138	25.61	69
März 10	53.11	45	45.03	124	46.233	166	26.30	58
20	52.66	48	46.27	78	46.067	181	26.88	44
30	52.18	49	47.05	29	45.886	184	27.32	29
Apr. 9	51.69	48	47.34	21	45.702	177	27.61	13
19	51.21	45	47.13	68	45.525	158	27.74	4
29	50.76	39	46.45	114	45.367	132	27.70	19
Mai 9	50.37	32	45.31	153	45.235	98	27.51	33
19	50.05	24	43.78	187	45.137	60	27.18	45
29	49.81	15	41.91	216	45.077	18	26.73	54
Juni 8	49.66	4	39.75	238	45.059	24	26.19	62
18	49.62	5	37.37	252	45.083	67	25.57	69
28	49.67	15	34.85	261	45.150	108	24.88	72
Juli 8	49.82	25	32.24	264	45.258	146	24.16	75
18	50.07	34	29.60	260	45.404	183	23.41	78
28	50.41	42	27.00	250	45.587	216	22.63	79
Aug. 7	50.83	50	24.50	237	45.803	245	21.84	80
17	51.33	57	22.13	219	46.048	273	21.04	81
27	51.90	63	19.94	196	46.321	296	20.23	83
Sept. 6	52.53	68	17.98	169	46.617	318	19.40	83
16	53.21	72	16.29	140	46.935	336	18.57	84
26	53.93	76	14.89	106	47.271	350	17.73	83
Okt. 6	54.69	77	13.83	71	47.621	361	16.90	80
16	55.46	78	13.12	32	47.982	368	16.10	75
26	56.24	78	12.80	7	48.350	369	15.35	69
Nov. 5	57.02	75	12.87	49	48.719	364	14.66	58
15	57.77	72	13.36	91	49.083	350	14.08	45
25	58.49	65	14.27	130	49.433	327	13.63	30
Dez. 5	59.14	58	15.57	168	49.760	296	13.33	11
15	59.72	49	17.25	200	50.056	257	13.22	7
25	60.21	37	19.25	225	50.313	208	13.29	25
35	60.58		21.50		50.521		13.54	
Mittl. Ort	49.33		25.65		44.452		17.25	
sec δ, tg δ	2.742		+2.553		1.178		+0.623	
a, *a'*	+6.3		−7.2		+3.8		−7.2	
b, *b'*	−0.06		−0.93		−0.02		−0.93	

Tag	287) α Geminorum¹) AR.		Dekl.		289) 25 Monocerotis AR.		Dekl.		291) α Canis min.²) AR.		Dekl.		292) 24 Lyncis AR.		Dekl.	
1932	7ʰ 30ᵐ		+32° 2′		7ʰ 33ᵐ		−3° 57′		7ʰ 35ᵐ		+5° 23′		7ʰ 37ᵐ		+58° 52′	
Jan. 1	17.499	182	27.19	36	55.194	145	21.54	184	46.036	151	68.10	133	18.823	266	19.88	188
11	17.681	124	27.55	53	55.339	97	23.38	170	46.187	102	66.77	117	19.089	176	21.76	204
20	17.805	66	28.08	66	55.436	47	25.08	151	46.289	51	65.60	99	19.265	83	23.80	212
30	17.871	7	28.74	75	55.483	2	26.59	130	46.340	2	64.61	80	19.348	10	25.92	213
Feb. 9	17.878	48	29.49	78	55.481	48	27.89	107	46.342	45	63.81	61	19.338	97	28.05	202
19	17.830	96	30.27	77	55.433	88	28.96	84	46.297	85	63.20	44	19.241	175	30.07	184
29	17.734	136	31.04	71	55.345	121	29.80	61	46.212	118	62.76	28	19.066	239	31.91	157
März 10	17.598	163	31.75	61	55.224	143	30.41	39	46.094	142	62.48	13	18.827	287	33.48	125
20	17.435	180	32.36	47	55.081	158	30.80	17	45.952	155	62.35	0	18.540	318	34.73	86
30	17.255	185	32.83	32	54.923	161	30.97	4	45.797	159	62.35	12	18.222	330	35.59	46
Apr. 9	17.070	178	33.15	16	54.762	155	30.93	24	45.638	152	62.47	23	17.892	324	36.05	4
19	16.892	161	33.31	2	54.607	142	30.69	43	45.486	138	62.70	33	17.568	301	36.09	38
29	16.731	135	33.29	17	54.465	121	30.26	61	45.348	117	63.03	42	17.267	265	35.71	77
Mai 9	16.596	102	33.12	32	54.344	94	29.65	77	45.231	90	63.45	50	17.002	217	34.94	113
19	16.494	65	32.80	44	54.250	65	28.88	92	45.141	58	63.95	57	16.785	158	33.81	145
29	16.429	24	32.36	55	54.185	31	27.96	106	45.083	24	64.52	64	16.627	96	32.36	171
Juni 8	16.405	18	31.81	63	54.154	3	26.90	117	45.059	11	65.16	69	16.531	27	30.65	192
18	16.423	60	31.18	70	54.157	38	25.73	124	45.070	46	65.85	73	16.504	41	28.73	209
28	16.483	101	30.48	75	54.195	71	24.49	128	45.116	80	66.58	74	16.545	110	26.64	219
Juli 8	16.584	140	29.73	79	54.266	104	23.21	129	45.196	113	67.32	73	16.655	176	24.45	225
18	16.724	177	28.94	81	54.370	135	21.92	124	45.309	143	68.05	67	16.831	238	22.20	225
28	16.901	209	28.13	83	54.505	163	20.68	115	45.452	171	68.72	59	17.069	297	19.95	221
Aug. 7	17.110	239	27.30	85	54.668	191	19.53	100	45.623	198	69.31	48	17.366	350	17.74	214
17	17.349	267	26.45	87	54.859	215	18.53	80	45.821	221	69.79	32	17.716	399	15.60	203
27	17.616	292	25.58	88	55.074	237	17.73	57	46.042	243	70.11	13	18.115	443	13.57	187
Sept. 6	17.908	314	24.70	89	55.311	257	17.16	28	46.285	263	70.24	9	18.558	481	11.70	169
16	18.222	332	23.81	90	55.568	276	16.88	3	46.548	279	70.15	33	19.039	513	10.01	147
26	18.554	348	22.91	89	55.844	290	16.91	36	46.827	294	69.82	58	19.552	539	8.54	122
Okt. 6	18.902	361	22.02	87	56.134	301	17.27	70	47.121	305	69.24	82	20.091	559	7.32	95
16	19.263	368	21.15	81	56.435	309	17.97	103	47.426	312	68.42	106	20.650	570	6.37	64
26	19.631	370	20.34	74	56.744	311	19.00	133	47.738	314	67.36	126	21.220	571	5.73	32
Nov. 5	20.001	365	19.60	64	57.055	306	20.33	158	48.052	310	66.10	143	21.791	562	5.41	4
15	20.366	352	18.96	51	57.361	295	21.91	179	48.362	299	64.67	153	22.353	540	5.45	41
25	20.718	331	18.45	34	57.656	276	23.70	192	48.661	281	63.14	160	22.893	504	5.86	76
Dez. 5	21.049	301	18.11	16	57.932	249	25.62	200	48.942	254	61.54	160	23.397	455	6.62	111
15	21.350	261	17.95	4	58.181	215	27.62	200	49.196	220	59.94	154	23.852	391	7.73	144
25	21.611	214	17.99	23	58.396	174	29.62	193	49.416	178	58.40	144	24.243	316	9.17	172
35	21.825		18.22		58.570		31.55		49.594		56.96		24.559		10.89	
Mittl. Ort	15.783		23.03		53.874		28.41		44.673		62.23		15.870		17.51	
sec δ, tg δ	1.180		+0.626		1.002		−0.069		1.004		+0.095		1.935		+1.656	
a, a'	+3.8		−7.7		+3.0		−8.0		+3.2		−8.1		+5.1		−8.3	
b, b'	−0.02		−0.92		0.00		−0.92		0.00		−0.91		−0.05		−0.91	

¹) AR. der Mitte; Dekl. des folgenden, helleren Sterns.

²) Ort des hellen Sterns; die jährliche Parallaxe (0.″33) ist bereits berücksichtigt.

Scheinbare Sternörter 1932

Tag	294) κ Geminorum AR.		Dekl.		295) β Geminorum AR.		Dekl.		297) ζ Volantis AR.		Dekl.		296) π Geminorum AR.		Dekl.	
1932	7h 40m		+24° 33′		7h 41m		+28° 11′		7h 42m		−72° 26′		7h 43m		+33° 34′	
	s		″		s		″		s		″		s		″	
Jan. 1	22.304	182	49.32	14	11.122	186	34.74	8	43.43	9	22.17	382	9.345	199	66.19	41
11	16 22.486	129	49.18	4	17 11.308	132	34.82	26	17 43.52	5	25.99	380	17 9.544	141	66.60	59
20	22.615	73	49.22	19	11.440	75	35.08	42	43.47	19	29.79	367	9.685	81	67.19	73
30	22.688	17	49.41	32	11.515	18	35.50	53	43.28	33	33.46	347	9.766	21	67.92	84
Feb. 9	22.705	34	49.73	41	11.533	36	36.03	60	42.95	44	36.93	317	9.787	36	68.76	89
19	22.671	80	50.14	46	11.497	84	36.63	63	42.51	55	40.10	279	9.751	87	69.65	88
29	22.591	118	50.60	48	11.413	123	37.26	62	41.96	63	42.89	237	9.664	128	70.53	83
März 10	22.473	146	51.08	46	11.290	151	37.88	56	41.33	69	45.26	190	9.536	159	71.36	72
20	22.327	163	51.54	40	11.139	170	38.44	47	40.64	74	47.16	140	9.377	178	72.08	58
30	22.164	169	51.94	32	10.969	176	38.91	36	39.90	76	48.56	88	9.199	186	72.66	41
Apr. 9	21.995	164	52.26	24	10.793	171	39.27	23	39.14	76	49.44	34	9.013	182	73.07	23
19	21.831	150	52.50	14	10.622	156	39.50	11	38.38	75	49.78	20	8.831	167	73.30	5
29	21.681	127	52.64	5	10.466	134	39.61	3	37.63	71	49.58	72	8.664	143	73.35	14
Mai 9	21.554	98	52.69	4	10.332	104	39.58	15	36.92	65	48.86	122	8.521	112	73.21	31
19	21.456	64	52.65	12	10.228	69	39.43	26	36.27	59	47.64	169	8.409	76	72.90	46
29	21.392	28	52.53	18	10.159	32	39.17	35	35.68	50	45.95	212	8.333	37	72.44	59
Juni 8	21.364	10	52.35	25	10.127	8	38.82	42	35.18	41	43.83	249	8.296	6	71.85	70
18	21.374	49	52.10	29	10.135	47	38.40	49	34.77	31	41.34	280	8.302	47	71.15	78
28	21.423	86	51.81	33	10.182	86	37.91	55	34.46	19	38.54	302	8.349	88	70.37	85
Juli 8	21.509	122	51.48	37	10.268	123	37.36	59	34.27	7	35.52	316	8.437	127	69.52	92
18	21.631	155	51.11	42	10.391	158	36.77	63	34.20	5	32.36	321	8.564	164	68.60	95
28	21.786	187	50.69	46	10.549	190	36.14	67	34.25	16	29.15	315	8.728	199	67.65	98
Aug. 7	21.973	215	50.23	52	10.739	220	35.47	72	34.41	29	26.00	298	8.927	231	66.67	101
17	22.188	242	49.71	59	10.959	247	34.75	76	34.70	40	23.02	272	9.158	260	65.66	103
27	22.430	265	49.12	65	11.206	272	33.99	81	35.10	50	20.30	235	9.418	286	64.63	104
Sept. 6	22.695	287	48.47	73	11.478	294	33.18	86	35.60	60	17.95	189	9.704	310	63.59	105
16	22.982	306	47.74	80	11.772	314	32.32	90	36.20	67	16.06	135	10.014	330	62.54	105
26	23.288	323	46.94	87	12.086	331	31.42	93	36.87	72	14.71	74	10.344	349	61.49	103
Okt. 6	23.611	336	46.07	93	12.417	344	30.49	95	37.59	76	13.97	9	10.693	364	60.46	99
16	23.947	345	45.14	96	12.761	354	29.54	95	38.35	76	13.88	58	11.057	374	59.47	93
26	24.292	349	44.18	96	13.115	358	28.59	91	39.11	75	14.46	124	11.431	378	58.54	84
Nov. 5	24.641	346	43.22	93	13.473	356	27.68	84	39.86	71	15.70	187	11.809	375	57.70	72
15	24.987	337	42.29	87	13.829	345	26.84	75	40.57	65	17.57	244	12.184	365	56.98	57
25	25.324	318	41.42	76	14.174	326	26.09	60	41.22	55	20.01	293	12.549	345	56.41	38
Dez. 5	25.642	291	40.66	62	14.500	299	25.49	44	41.77	44	22.94	333	12.894	316	56.03	17
15	25.933	255	40.04	46	14.799	262	25.05	25	42.21	32	26.27	362	13.210	278	55.86	4
25	26.188	211	39.58	27	15.061	217	24.80	6	42.53	18	29.89	379	13.488	230	55.90	24
35	26.399		39.31		15.278		24.74		42.71		33.68		13.718		56.14	
Mittl. Ort	20.738		45.21		9.491		30.96		39.90		35.16		7.598		62.94	
sec δ, tg δ	1.099		+0.457		1.135		+0.536		3.315		−3.161		1.200		+0.664	
a, *a′*	+3.6		−8.5		+3.7		−8.6		−0.7		−8.7		+3.9		−8.7	
b, *b′*	−0.01		−0.91		−0.02		−0.90		+0.09		−0.90		−0.02		−0.90	

Tag	300) Grb 1374 AR.	Δ	300) Dekl	Δ	303) χ Argus AR.	Δ	303) Dekl.	Δ	305) χ Geminorum AR.	Δ	305) Dekl.	Δ	306) ζ Argus AR.	Δ	306) Dekl.	Δ
1932	$7^h\ 52^m$		+74° 5′		$7^h\ 55^m$		−52° 47′		$7^h\ 59^m$		+27° 59′		$8^h\ 1^m$		−39° 48′	
	s		″		s		″		s		″		s		″	
Jan. 1	11.25	47	69.53	248	4.817	138	44.79	374	22.351	207	13.84	1	13.000	152	27.60	346
11	11.72	30	72.01	268	4.955	64	48.53	370	22.558	152	13.83	$\overline{19}$	13.152	92	31.06	341
20*)	[19] 12.02	13	74.69	276	[20] 5.019	$\overline{11}$	52.23	357	[21] 22.710	95	14.02	36	[22] 13.244	31	34.47	326
30	12.15	$\overline{3}$	77.45	274	5.008	83	55.80	336	22.805	38	14.38	51	13.275	$\overline{29}$	37.73	304
Feb. 9	12.12	20	80.19	261	4.925	150	59.16	305	22.843	$\overline{17}$	14.89	61	13.246	85	40.77	275
19	11.92	35	82.80	237	4.775	209	62.21	268	22.826	66	15.50	67	13.161	134	43.52	240
29	11.57	47	85.17	203	4.566	257	64.89	227	22.760	108	16.17	67	13.027	175	45.92	201
März 10	11.10	56	87.20	162	4.309	294	67.16	181	22.652	139	16.84	64	12.852	207	47.93	159
20	10.54	63	88.82	114	4.015	319	68.97	132	22.513	160	17.48	56	12.645	228	49.52	114
30	9.91	67	89.96	63	3.696	332	70.29	81	22.353	170	18.04	46	12.417	239	50.66	68
Apr. 9	9.24	67	90.59	10	3.364	332	71.10	31	22.183	169	18.50	33	12.178	239	51.34	22
19	8.57	64	90.69	$\overline{43}$	3.032	323	71.41	$\overline{20}$	22.014	158	18.83	19	11.939	230	51.56	$\overline{23}$
29	7.93	59	90.26	94	2.709	302	71.21	71	21.856	138	19.02	6	11.709	214	51.33	68
Mai 9	7.34	51	89.32	140	2.407	274	70.50	118	21.718	111	19.08	$\overline{7}$	11.495	190	50.65	110
19	6.83	42	87.92	182	2.133	237	69.32	162	21.607	80	19.01	19	11.305	159	49.55	149
29	6.41	31	86.10	217	1.896	195	67.70	203	21.527	45	18.82	30	11.146	126	48.06	185
Juni 8	6.10	18	83.93	246	1.701	148	65.67	238	21.482	7	18.52	40	11.020	88	46.21	216
18	5.92	6	81.47	269	1.553	96	63.29	267	21.475	$\overline{31}$	18.12	49	10.932	47	44.05	241
28	5.86	$\overline{7}$	78.78	283	1.457	42	60.62	287	21.506	68	17.63	55	10.885	6	41.64	259
Juli 8	5.93	20	75.95	292	1.415	$\overline{13}$	57.75	300	21.574	105	17.08	62	10.879	$\overline{36}$	39.05	269
18	6.13	32	73.03	293	1.428	69	54.75	304	21.679	140	16.46	68	10.915	78	36.36	272
28	6.45	44	70.10	290	1.497	126	51.71	298	21.819	172	15.78	75	10.993	121	33.64	265
Aug. 7	6.89	55	67.20	279	1.623	180	48.73	282	21.991	202	15.03	80	11.114	162	30.99	249
17	7.44	65	64.41	263	1.803	232	45.91	256	22.193	231	14.23	86	11.276	201	28.50	225
27	8.09	75	61.78	242	2.035	281	43.35	219	22.424	257	13.37	93	11.477	237	26.25	190
Sept. 6	8.84	82	59.36	216	2.316	326	41.16	175	22.681	281	12.44	98	11.714	272	24.35	149
16	9.66	89	57.20	186	2.642	364	39.41	122	22.962	304	11.46	104	11.986	302	22.86	99
26	10.55	95	55.34	151	3.006	395	38.19	63	23.266	324	10.42	108	12.288	328	21.87	44
Okt. 6	11.50	99	53.83	113	3.401	418	37.56	0	23.590	340	9.34	111	12.616	347	21.43	$\overline{14}$
16	12.49	101	52.70	72	3.819	430	37.56	64	23.930	352	8.23	110	12.963	360	21.57	73
26	13.50	101	51.98	27	4.249	430	38.20	129	24.282	360	7.13	108	13.323	364	22.30	132
Nov. 5	14.51	100	51.71	$\overline{19}$	4.679	419	39.49	190	24.642	361	6.05	101	13.687	359	23.62	187
15	15.51	96	51.90	66	5.098	395	41.39	244	25.003	354	5.04	90	14.046	344	25.49	237
25	16.47	89	52.56	113	5.493	358	43.83	292	25.357	339	4.14	75	14.390	319	27.86	279
Dez. 5	17.36	80	53.69	156	5.851	309	46.75	329	25.696	313	3.39	58	14.709	284	30.65	311
15	18.16	69	55.25	196	6.160	251	50.04	356	26.009	279	2.81	38	14.993	240	33.76	334
25	18.85	55	57.21	229	6.411	184	53.60	371	26.288	235	2.43	17	15.233	188	37.10	345
35	19.40		59.50		6.595		57.31		26.523		2.26		15.421		40.55	
Mittl. Ort	5.58		68.88		3.056		57.05		20.743		11.09		11.582		38.76	
sec δ, tg δ	3.651		+3.511		1.654		−1.317		1.132		+0.531		1.302		−0.834	
a, a'	+7.2		−9.4		+1.5		−9.6		+3.7		−10.0		+2.1		−10.1	
b, b'	−0.11		−0.88		+0.04		−0.88		−0.02		−0.87		+0.03		−0.86	

*) Bei Stern 305) und 306) lies Jan. 21

Tag	307) 27 Lyncis AR.		307) 27 Lyncis Dekl.		308) ι Navis AR.		308) ι Navis Dekl.		309) γ Argus AR.		309) γ Argus Dekl.		311) 20 Navis AR.		311) 20 Navis Dekl.	
1932	8h 3m		+51° 42′		8h 4m		−24° 6′		8h 7m		−47° 7′		8h 10m		−15° 34′	
Jan. 1	23.545	273	16.41	136	40.113	163	17.00	291	27.702	159	55.68	364	13.683	172	48.22	254
11	23.818	199	17.77	158	40.276	111	19.91	282	27.861	92	59.32	362	13.855	124	50.75	243
21	24.017	121	19.35	174	40.387	57	22.73	266	27.953	25	62.94	350	13.979	73	53.19	227
30	24.138	41	21.09	183	40.444	5	25.39	244	27.978	41	66.44	330	14.052	21	55.46	205
Feb. 9	24.179	35	22.92	182	40.449	44	27.83	216	27.937	103	69.74	301	14.073	27	57.51	179
19	24.144	104	24.74	173	40.405	89	29.99	185	27.834	158	72.75	267	14.046	70	59.30	150
29	24.040	164	26.47	157	40.316	127	31.84	151	27.676	204	75.42	226	13.976	107	60.80	121
März 10	23.876	211	28.04	134	40.189	154	33.35	116	27.472	240	77.68	183	13.869	136	62.01	91
20	23.665	242	29.38	104	40.035	174	34.51	79	27.232	265	79.51	137	13.733	154	62.92	59
30	23.423	259	30.42	71	39.861	183	35.30	43	26.967	278	80.88	88	13.579	164	63.51	29
Apr. 9	23.164	261	31.13	35	39.678	183	35.73	6	26.689	281	81.76	39	13.415	165	63.80	0
19	22.903	248	31.48	1	39.495	174	35.79	30	26.408	274	82.15	9	13.250	157	63.80	30
29	22.655	224	31.47	36	39.321	158	35.49	64	26.134	257	82.06	58	13.093	142	63.50	57
Mai 9	22.431	188	31.11	70	39.163	137	34.85	97	25.877	234	81.48	104	12.951	121	62.93	84
19	22.243	145	30.41	101	39.026	110	33.88	126	25.643	202	80.44	147	12.830	96	62.09	107
29	22.098	96	29.40	128	38.916	80	32.62	154	25.441	166	78.97	187	12.734	68	61.02	128
Juni 8	22.002	44	28.12	151	38.836	47	31.08	177	25.275	125	77.10	221	12.666	36	59.74	147
18	21.958	11	26.61	170	38.789	14	29.31	194	25.150	82	74.89	249	12.630	4	58.27	161
28	21.969	65	24.91	184	38.775	21	27.37	208	25.068	35	72.40	271	12.626	28	56.66	171
Juli 8	22.034	119	23.07	195	38.796	57	25.29	214	25.033	13	69.69	284	12.654	60	54.95	175
18	22.153	170	21.12	201	38.853	90	23.15	214	25.046	62	66.85	290	12.714	93	53.20	173
28	22.323	219	19.11	203	38.943	124	21.01	206	25.108	110	63.95	285	12.807	123	51.47	166
Aug. 7	22.542	264	17.08	203	39.067	156	18.95	191	25.218	157	61.10	270	12.930	154	49.81	151
17	22.806	307	15.05	198	39.223	187	17.04	168	25.375	204	58.40	247	13.084	182	48.30	131
27	23.113	346	13.07	191	39.410	217	15.36	138	25.579	249	55.93	214	13.266	209	46.99	103
Sept. 6	23.459	382	11.16	181	39.627	244	13.98	101	25.828	288	53.79	171	13.475	235	45.96	71
16	23.841	413	9.35	167	39.871	269	12.97	58	26.116	325	52.08	120	13.710	259	45.25	33
26	24.254	441	7.68	150	40.140	291	12.39	12	26.441	355	50.88	64	13.969	280	44.92	8
Okt. 6	24.695	464	6.18	130	40.431	308	12.27	38	26.796	378	50.24	4	14.249	298	45.00	52
16	25.159	480	4.88	107	40.739	321	12.65	87	27.174	393	50.20	59	14.547	311	45.52	94
26	25.639	489	3.81	80	41.060	327	13.52	136	27.567	398	50.79	121	14.858	319	46.46	136
Nov. 5	26.128	489	3.01	49	41.387	326	14.88	181	27.965	393	52.00	181	15.177	320	47.82	173
15	26.617	478	2.52	17	41.713	316	16.69	220	28.358	375	53.81	235	15.497	312	49.55	206
25	27.095	455	2.35	17	42.029	299	18.89	251	28.733	346	56.16	281	15.809	298	51.61	231
Dez. 5	27.550	421	2.52	52	42.328	271	21.40	275	29.079	307	58.97	318	16.107	274	53.92	249
15	27.971	372	3.04	85	42.599	236	24.15	290	29.386	258	62.15	346	16.381	241	56.41	258
25	28.343	313	3.89	116	42.835	192	27.05	294	29.644	199	65.61	361	16.622	200	58.99	260
35	28.656		5.05		43.027		29.99		29.843		69.22		16.822		61.59	
Mittl. Ort	21.115		15.97		38.854		26.26		26.178		67.91		12.461		56.33	
sec δ, tg δ	1.614		+1.266		1.096		−0.447		1.470		−1.077		1.038		−0.279	
a, *a'*	+4.5		−10.3		+2.6		−10.4		+1.9		−10.6		+2.8		−10.8	
b, *b'*	−0.04		−0.86		+0.02		−0.86		+0.04		−0.85		+0.01		−0.84	

Tag	310) Br 1147 AR.		Dekl.		312) β Cancri AR.		Dekl.		314) 31 Lyncis AR.		Dekl.		315) ε Argus AR.		Dekl.	
1932	8h 11m		+75° 57′		8h 12m		+9° 23′		8h 18m		+43° 24′		8h 21m		−59° 17′	
	s		″		s		″		s		″		s		″	
Jan. 1	9.29	58	61.24	242	51.093	195	51.21	120	13.290	262	27.58	80	9.093	188	10.25	380
11	9.87	40	63.66	267	51.288	146	50.01	102	13.552	199	28.38	104	9.281	102	14.05	384
21	10.27	21	66.33	281	51.434	96	48.99	83	13.751	132	29.42	125	9.383	15	17.89	378
30	10.48	2	69.14	283	51.530	44	48.16	63	13.883	63	30.67	139	9.398	70	21.67	363
Feb. 9	10.50	17	71.97	274	51.574	6	47.53	44	13.946	4	32.06	146	9.328	149	25.30	338
19	10.33	33	74.71	254	51.568	50	47.09	27	13.942	66	33.52	144	9.179	220	28.68	306
29	10.00	49	77.25	223	51.518	88	46.82	12	13.876	119	34.96	136	8.959	281	31.74	267
März 10	9.51	60	79.48	184	51.430	118	46.70	2	13.757	161	36.32	122	8.678	330	34.41	224
20	8.91	70	81.32	138	51.312	138	46.72	12	13.596	192	37.54	102	8.348	366	36.65	177
30	8.21	74	82.70	86	51.174	148	46.84	21	13.404	208	38.56	77	7.982	388	38.42	127
Apr. 9	7.47	76	83.56	32	51.026	149	47.05	27	13.196	212	39.33	49	7.594	397	39.69	75
19	6.71	75	83.88	22	50.877	141	47.32	33	12.984	204	39.82	21	7.197	395	40.44	23
29	5.96	70	83.66	74	50.736	125	47.65	37	12.780	186	40.03	9	6.802	381	40.67	29
Mai 9	5.26	63	82.92	124	50.611	104	48.02	41	12.594	158	39.94	37	6.421	355	40.38	81
19	4.63	53	81.68	169	50.507	77	48.43	44	12.436	124	39.57	63	6.066	322	39.57	129
29	4.10	42	79.99	209	50.430	49	48.87	46	12.312	84	38.94	87	5.744	280	38.28	174
Juni 8	3.68	28	77.90	242	50.381	17	49.33	47	12.228	41	38.07	108	5.464	231	36.54	214
18	3.40	15	75.48	268	50.364	15	49.80	48	12.187	3	36.99	126	5.233	175	34.40	249
28	3.25	1	72.80	288	50.379	48	50.28	46	12.190	48	35.73	141	5.058	116	31.91	276
Juli 8	3.24	14	69.92	300	50.427	78	50.74	43	12.238	92	34.32	153	4.942	53	29.15	296
18	3.38	27	66.92	307	50.505	109	51.17	37	12.330	134	32.79	162	4.889	13	26.19	306
28	3.65	41	63.85	305	50.614	139	51.54	29	12.464	176	31.17	168	4.902	81	23.13	307
Aug. 7	4.06	54	60.80	298	50.753	166	51.83	18	12.640	215	29.49	172	4.983	148	20.06	297
17	4.60	66	57.82	286	50.919	192	52.01	5	12.855	251	27.77	173	5.131	215	17.09	277
27	5.26	77	54.96	267	51.111	218	52.06	13	13.106	285	26.04	173	5.346	278	14.32	246
Sept. 6	6.03	87	52.29	243	51.329	241	51.93	32	13.391	317	24.31	169	5.624	338	11.86	206
16	6.90	95	49.86	214	51.570	264	51.61	53	13.708	346	22.62	164	5.962	390	9.80	157
26	7.85	102	47.72	181	51.834	283	51.08	74	14.054	373	20.98	155	6.352	434	8.23	100
Okt. 6	8.87	108	45.91	142	52.117	301	50.34	95	14.427	396	19.43	144	6.786	469	7.23	38
16	9.95	112	44.49	100	52.418	315	49.39	115	14.823	414	17.99	128	7.255	491	6.85	28
26	11.07	113	43.49	55	52.733	324	48.24	132	15.237	425	16.71	109	7.746	500	7.13	93
Nov. 5	12.20	112	42.94	7	53.057	327	46.92	145	15.662	430	15.62	87	8.246	492	8.06	158
15	13.32	109	42.87	43	53.384	322	45.47	153	16.092	425	14.75	61	8.738	470	9.64	218
25	14.41	103	43.30	93	53.706	310	43.94	156	16.517	409	14.14	32	9.208	433	11.82	271
Dez. 5	15.44	94	44.23	140	54.016	289	42.38	153	16.926	382	13.82	2	9.641	380	14.53	316
15	16.38	82	45.63	183	54.305	260	40.85	145	17.308	344	13.80	30	10.021	316	17.69	349
25	17.20	67	47.46	220	54.565	220	39.40	132	17.652	296	14.10	60	10.337	240	21.18	373
35	17.87		49.66		54.785		38.08		17.948		14.70		10.577		24.91	
Mittl. Ort	2.88		62.49		49.769		46.79		11.275		27.66		7.259		24.38	
sec δ, tg δ	4.124		+4.001		1.014		+0.166		1.376		+0.946		1.958		−1.684	
a, *a′*	+7.6		−10.8		+3.3		−11.0		+4.1		−11.4		+1.2		−11.6	
b, *b′*	−0.14		− 0.84		−0.01		− 0.84		−0.04		− 0.82		+0.06		− 0.82	

Scheinbare Sternörter 1932

Tag	316) Br 1197 AR.		316) Br 1197 Dekl.		318) ϑ Chamael. AR.		318) ϑ Chamael. Dekl.		317) o Ursae maj. AR.		317) o Ursae maj. Dekl.		320) Grb 1450 AR.		320) Grb 1450 Dekl.	
1932	8h 22m		−3° 40′		8h 22m		−77° 15′		8h 24m		+60° 56′		8h 28m		+38° 14′	
Jan. 1	17.045	192	54.19	197	46.65	26	41.17	375	41.02	36	48.27	168	31.948	258	63.42	43
11	17.237	145	56.16	183	46.91	7	44.92	385	41.38	27	49.95	196	32.206	201	63.85	70
21	17.382	95	57.99	164	46.98	12	48.77	384	41.65	18	51.91	215	32.407	138	64.55	92
30	17.477	44	59.63	144	46.86	30	52.61	373	41.83	7	54.06	227	32.545	74	65.47	109
Feb. 9	17.521	4	61.07	120	46.56	47	56.34	353	41.90	2	56.33	227	32.619	11	66.56	119
19	17.517	48	62.27	96	46.09	62	59.87	325	41.88	12	58.60	218	32.630	47	67.75	124
29	17.469	86	63.23	73	45.47	76	63.12	290	41.76	19	60.78	199	32.583	98	68.99	120
März 10	17.383	116	63.96	50	44.71	86	66.02	248	41.57	26	62.77	172	32.485	138	70.19	111
20	17.267	136	64.46	28	43.85	94	68.50	204	41.31	30	64.49	138	32.347	168	71.30	97
30	17.131	147	64.74	8	42.91	100	70.54	154	41.01	34	65.87	98	32.179	186	72.27	78
Apr. 9	16.984	149	64.82	11	41.91	103	72.08	103	40.67	34	66.85	56	31.993	190	73.05	56
19	16.835	143	64.71	30	40.88	104	73.11	50	40.33	34	67.41	12	31.803	185	73.61	32
29	16.692	130	64.41	47	39.84	102	73.61	4	39.99	32	67.53	33	31.618	170	73.93	7
Mai 9	16.562	111	63.94	62	38.82	97	73.57	56	39.67	28	67.20	74	31.448	146	74.00	18
19	16.451	87	63.32	77	37.85	91	73.01	108	39.39	23	66.46	113	31.302	116	73.82	40
29	16.364	60	62.55	89	36.94	82	71.93	156	39.16	18	65.33	149	31.186	81	73.42	62
Juni 8	16.304	31	61.66	99	36.12	71	70.37	200	38.98	12	63.84	180	31.105	43	72.80	82
18	16.273	1	60.67	107	35.41	59	68.37	238	38.86	5	62.04	205	31.062	3	71.98	98
28	16.272	30	59.60	112	34.82	45	65.99	270	38.81	2	59.99	225	31.059	37	71.00	113
Juli 8	16.302	61	58.48	112	34.37	30	63.29	293	38.83	9	57.74	241	31.096	77	69.87	126
18	16.363	90	57.36	108	34.07	13	60.36	308	38.92	15	55.33	251	31.173	116	68.61	135
28	16.453	120	56.28	101	33.94	3	57.28	314	39.07	22	52.82	256	31.289	153	67.26	144
Aug. 7	16.573	148	55.27	88	33.97	20	54.14	309	39.29	28	50.26	256	31.442	189	65.82	151
17	16.721	175	54.39	71	34.17	37	51.05	292	39.57	33	47.70	252	31.631	223	64.31	155
27	16.896	201	53.68	49	34.54	52	48.13	265	39.90	39	45.18	242	31.854	255	62.76	159
Sept. 6	17.097	226	53.19	22	35.06	67	45.48	228	40.29	44	42.76	229	32.109	286	61.17	159
16	17.323	250	52.97	8	35.73	80	43.20	181	40.73	49	40.47	211	32.395	315	59.58	159
26	17.573	272	53.05	40	36.53	91	41.39	127	41.22	52	38.36	189	32.710	341	57.99	155
Okt. 6	17.845	291	53.45	74	37.44	98	40.12	65	41.74	56	36.47	163	33.051	364	56.44	150
16	18.136	306	54.19	105	38.42	102	39.47	1	42.30	59	34.84	132	33.415	383	54.94	140
26	18.442	316	55.24	136	39.44	103	39.46	67	42.89	60	33.52	97	33.798	397	53.54	126
Nov. 5	18.758	320	56.60	164	40.47	100	40.13	132	43.49	60	32.55	59	34.195	403	52.28	108
15	19.078	316	58.24	184	41.47	93	41.45	194	44.09	60	31.96	18	34.598	401	51.20	88
25	19.394	305	60.08	200	42.40	84	43.39	251	44.69	57	31.78	24	34.999	389	50.32	62
Dez. 5	19.699	284	62.08	208	43.24	71	45.90	299	45.26	54	32.02	66	35.388	366	49.70	34
15	19.983	255	64.16	210	43.95	56	48.89	337	45.80	48	32.68	108	35.754	332	49.36	6
25	20.238	218	66.26	206	44.51	38	52.26	365	46.28	40	33.76	145	36.086	289	49.30	24
35	20.456		68.32		44.89		55.91		46.68		35.21		36.375		49.54	
Mittl. Ort	15.834		60.37		42.63		56.83		37.90		50.29		30.131		63.70	
sec δ, tg δ	1.002		−0.064		4.537		−4.425		2.059		+1.800		1.273		+0.788	
a, *a′*	+3.0		−11.7		−1.7		−11.7		+5.0		−11.8		+3.9		−12.1	
b, *b′*	0.00		−0.81		+0.17		−0.81		−0.07		−0.81		−0.03		−0.80	

Tag	321) η Cancri AR.		321) η Cancri Dekl.		326) δ Cancri AR.		326) δ Cancri Dekl.		327) α Pyxidis AR.		327) α Pyxidis Dekl.		328) ι Cancri AR.		328) ι Cancri Dekl.	
1932	8h 28m		+20° 40′		8h 40m		+18° 24′		8h 40m		−32° 56′		8h 42m		+29° 0′	
Jan. 1	48.230	223	26.27	60	50.803	231	21.12	80	52.694	201	14.13	326	36.781	251	35.54	19
11	48.453	174	25.67	38	51.034	183	20.32	57	52.895	147	17.39	325	37.032	199	35.35	8
21	48.627	120	25.29	17	51.217	131	19.75	35	53.042	91	20.64	314	37.231	143	35.43	32
30*)	48.747	66	25.12	3	51.348	77	19.40	13	53.133	34	23.78	297	37.374	85	35.75	52
Feb. 9	48.813	13	25.15	20	51.425	25	19.27	5	53.167	20	26.75	273	37.459	29	36.27	68
19	48.826	36	25.35	34	51.450	24	19.32	21	53.147	70	29.48	243	37.488	26	36.95	79
29	48.790	78	25.69	42	51.426	68	19.53	32	53.077	113	31.91	209	37.462	72	37.74	85
März 10	48.712	112	26.11	48	51.358	102	19.85	40	52.964	148	34.00	171	37.390	110	38.59	85
20	48.600	136	26.59	49	51.256	126	20.25	45	52.816	173	35.71	133	37.280	138	39.44	79
30	48.464	150	27.08	46	51.130	143	20.70	45	52.643	190	37.04	92	37.142	156	40.23	70
Apr. 9	48.314	153	27.54	42	50.987	148	21.15	43	52.453	197	37.96	51	36.986	163	40.93	58
19	48.161	148	27.96	36	50.839	145	21.58	39	52.256	195	38.47	9	36.823	160	41.51	44
29	48.013	135	28.32	29	50.694	133	21.97	34	52.061	186	38.56	31	36.663	149	41.95	27
Mai 9	47.878	114	28.61	20	50.561	116	22.31	28	51.875	169	38.25	70	36.514	129	42.22	10
19	47.764	89	28.81	13	50.445	92	22.59	22	51.706	148	37.55	107	36.385	105	42.32	6
29	47.675	60	28.94	5	50.353	66	22.81	14	51.558	123	36.48	141	36.280	75	42.26	21
Juni 8	47.615	28	28.99	2	50.287	36	22.95	8	51.435	93	35.07	172	36.205	43	42.05	37
18	47.587	4	28.97	10	50.251	5	23.03	1	51.342	61	33.35	197	36.162	10	41.68	50
28	47.591	38	28.87	18	50.246	26	23.04	7	51.281	27	31.38	217	36.152	24	41.18	62
Juli 8	47.629	70	28.69	25	50.272	58	22.97	14	51.254	9	29.21	231	36.176	59	40.56	74
18	47.699	102	28.44	33	50.330	88	22.83	23	51.263	44	26.90	235	36.235	93	39.82	85
28	47.801	133	28.11	42	50.418	118	22.60	33	51.307	81	24.55	237	36.328	126	38.97	95
Aug. 7	47.934	162	27.69	52	50.536	148	22.27	44	51.388	118	22.18	225	36.454	157	38.02	105
17	48.096	190	27.17	63	50.684	176	21.83	56	51.506	155	19.93	206	36.611	189	36.97	115
27	48.286	218	26.54	75	50.860	203	21.27	69	51.661	190	17.87	180	36.800	218	35.82	123
Sept. 6	48.504	243	25.79	87	51.063	230	20.58	84	51.851	226	16.07	144	37.018	247	34.59	132
16	48.747	268	24.92	100	51.293	256	19.74	98	52.077	258	14.63	101	37.265	275	33.27	139
26	49.015	291	23.92	112	51.549	280	18.76	113	52.335	288	13.62	53	37.540	301	31.88	144
Okt. 6	49.306	312	22.80	123	51.829	302	17.63	126	52.623	314	13.09	1	37.841	324	30.44	148
16	49.618	328	21.57	131	52.131	321	16.37	136	52.937	334	13.08	54	38.165	345	28.96	147
26	49.946	341	20.26	136	52.452	336	15.01	145	53.271	347	13.62	109	38.510	359	27.49	144
Nov. 5	50.287	347	18.90	137	52.788	343	13.56	148	53.618	352	14.71	161	38.869	369	26.05	137
15	50.634	346	17.53	134	53.131	344	12.08	147	53.970	349	16.32	209	39.238	370	24.68	124
25	50.980	336	16.19	125	53.475	336	10.61	141	54.319	333	18.41	251	39.608	362	23.44	107
Dez. 5	51.316	316	14.94	112	53.811	319	9.20	130	54.652	309	20.92	285	39.970	343	22.37	87
15	51.632	287	13.82	95	54.130	292	7.90	114	54.961	275	23.77	309	40.313	316	21.50	63
25	51.919	250	12.87	76	54.422	257	6.76	95	55.236	231	26.86	323	40.629	277	20.87	36
35	52.169		12.11		54.679		5.81		55.467		30.09		40.906		20.51	
Mittl. Ort	46.801		24.19		49.439		19.28		51.537		25.30		35.234		35.50	
sec δ, tg δ	1.069		+0.376		1.054		+0.333		1.192		−0.648		1.144		+0.555	
a, *a′*	+3.5		−12.1		+3.4		−12.9		+2.4		−12.9		+3.6		−13.1	
b, *b′*	−0.02		−0.80		−0.01		−0.76		+0.03		−0.76		−0.02		−0.76	

*) Bei Stern 326), 327) und 328) lies Jan. 31

Scheinbare Sternörter 1932

Tag	330) δ Argus				334) ζ Hydrae				336) c Carinae				335) ι Ursae maj.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$8^h\,42^m$		$-54°\,27'$		$8^h\,51^m$		$+6°\,12'$		$8^h\,53^m$		$-60°\,22'$		$8^h\,54^m$		$+48°\,18'$	
	s		"		s		"		s		"		s		"	
Jan. 1	51.047	220	17.55	372	49.263	226	23.08	152	32.09	25	47.14	374	35.869	322	31.93	80
11	51.267	146	21.27	379	49.489	181	21.56	134	32.34	17	50.88	385	36.191	258	32.73	114
21	51.413	69	25.06	377	49.670	132	20.22	114	32.51	8	54.73	387	36.449	188	33.87	141
31	51.482	8	28.83	365	49.802	80	19.08	92	32.59	0	58.60	379	36.637	114	35.28	161
Feb. 9	51.474	80	32.48	343	49.882	30	18.16	69	32.59	9	62.39	361	36.751	40	36.89	174
19	51.394	146	35.91	314	49.912	17	17.47	48	32.50	17	66.00	334	36.791	31	38.63	177
29	51.248	204	39.05	279	49.895	57	16.99	29	32.33	24	69.34	301	36.760	93	40.40	173
März 10	51.044	252	41.84	238	49.838	91	16.70	11	32.09	29	72.35	263	36.667	145	42.13	160
20	50.792	287	44.22	194	49.747	116	16.59	3	31.80	34	74.98	218	36.522	186	43.73	140
30	50.505	312	46.16	146	49.631	132	16.62	15	31.46	37	77.16	171	36.336	214	45.13	114
April 9	50.193	325	47.62	96	49.499	138	16.77	25	31.09	38	78.87	121	36.122	228	46.27	84
19	49.868	327	48.58	45	49.361	137	17.02	34	30.71	40	80.08	70	35.894	229	47.11	51
29	49.541	318	49.03	5	49.224	128	17.36	41	30.31	39	80.78	17	35.665	219	47.62	16
Mai 9	49.223	301	48.98	56	49.096	113	17.77	46	29.92	37	80.95	36	35.446	198	47.78	18
19	48.922	276	48.42	104	48.983	93	18.23	51	29.55	35	80.59	86	35.248	169	47.60	51
29	48.646	243	47.38	149	48.890	70	18.74	54	29.20	32	79.73	134	35.079	133	47.09	83
Juni 8	48.403	204	45.89	191	48.820	43	19.28	56	28.88	27	78.39	178	34.946	93	46.26	112
18	48.199	160	43.98	226	48.777	16	19.84	57	28.61	23	76.61	218	34.853	51	45.14	138
28	48.039	112	41.72	256	48.761	12	20.41	56	28.38	17	74.43	251	34.802	5	43.76	160
Juli 8	47.927	59	39.16	277	48.773	42	20.97	52	28.21	11	71.92	276	34.797	41	42.16	178
18	47.868	3	36.39	291	48.815	70	21.49	46	28.10	5	69.16	294	34.838	86	40.38	194
28	47.865	53	33.48	295	48.885	98	21.95	37	28.05	3	66.22	302	34.924	131	38.44	206
Aug. 7	47.918	111	30.53	290	48.983	127	22.32	25	28.08	9	63.20	300	35.055	175	36.38	214
17	48.029	170	27.63	273	49.110	154	22.57	10	28.17	16	60.20	287	35.230	217	34.24	219
27	48.199	227	24.90	246	49.264	181	22.67	8	28.33	23	57.33	264	35.447	257	32.05	220
Sept. 6	48.426	281	22.44	210	49.445	209	22.59	29	28.56	30	54.69	229	35.704	296	29.85	219
16	48.707	331	20.34	165	49.654	235	22.30	52	28.86	36	52.40	187	36.000	334	27.66	213
26	49.038	375	18.69	111	49.889	260	21.78	76	29.22	42	50.53	134	36.334	369	25.53	204
Okt. 6	49.413	412	17.58	52	50.149	283	21.02	101	29.64	46	49.19	75	36.703	401	23.49	190
16	49.825	439	17.06	12	50.432	303	20.01	124	30.10	50	48.44	12	37.104	427	21.59	172
26	50.264	454	17.18	77	50.735	318	18.77	145	30.60	52	48.32	55	37.531	447	19.87	150
Nov. 5	50.718	456	17.95	140	51.053	328	17.32	162	31.12	52	48.87	120	37.978	461	18.37	123
15	51.174	445	19.35	201	51.381	329	15.70	174	31.64	51	50.07	182	38.439	464	17.14	91
25	51.619	419	21.36	255	51.710	324	13.96	180	32.15	48	51.89	241	38.903	455	16.23	57
Dez. 5	52.038	379	23.91	301	52.034	309	12.16	181	32.63	44	54.30	290	39.358	435	15.66	20
15	52.417	327	26.92	337	52.343	283	10.35	175	33.07	37	57.20	331	39.793	401	15.46	19
25	52.744	265	30.29	363	52.626	250	8.60	163	33.44	31	60.51	362	40.194	354	15.65	57
35	53.009		33.92		52.876		6.97		33.75		64.13		40.548		16.22	
Mittl. Ort	49.574		32.02		48.072		19.44		30.51		62.76		33.725		35.42	
sec δ, tg δ	1.720		−1.400		1.006		+0.109		2.024		−1.759		1.503		+1.123	
a, *a'*	+1.7		−13.1		+3.2		−13.7		+1.4		−13.8		+4.2		−13.8	
b, *b'*	+0.06		−0.76		0.00		−0.73		+0.08		−0.73		−0.05		−0.72	

Tag	337) α Cancri AR.		337) α Cancri Dekl.		339) 10 Ursae maj. AR.		339) 10 Ursae maj. Dekl.		341) κ Ursae maj. AR.		341) κ Ursae maj. Dekl.		343) α Volantis AR.		343) α Volantis Dekl.	
1932	$8^h 54^m$		+12° 7'		$8^h 56^m$		+42° 2'		$8^h 58^m$		+47° 25'		$9^h 1^m$		−66° 7'	
	s		"		s		"		s		"		s		"	
Jan. 1	47.494	235	21.62	121	15.933	298	68.44	46	61.661	323	32.35	73	24.44	30	11.60	371
11	47.729	189	20.41	100	16.231	240	68.90	78	61.984	262	33.08	106	24.74	20	15.31	388
21	47.918	140	19.41	78	16.471	177	69.68	105	62.246	193	34.14	135	24.94	9	19.19	393
31	48.058	87	18.63	55	16.648	110	70.73	126	62.439	120	35.49	156	25.03	1	23.12	388
Feb. 9	48.145	36	18.08	34	16.758	43	71.99	141	62.559	47	37.05	170	25.02	12	27.00	374
19	48.181	12	17.74	15	16.801	20	73.40	148	62.606	22	38.75	175	24.90	20	30.74	349
29	48.169	54	17.59	2	16.781	77	74.88	148	62.584	84	40.50	172	24.70	29	34.23	319
März 10	48.115	88	17.61	15	16.704	124	76.36	140	62.500	137	42.22	160	24.41	36	37.42	282
20	48.027	115	17.76	26	16.580	160	77.76	125	62.363	177	43.82	141	24.05	41	40.24	240
30	47.912	132	18.02	32	16.420	185	79.01	105	62.186	205	45.23	118	23.64	46	42.64	193
Apr. 9	47.780	139	18.34	37	16.235	197	80.06	80	61.981	220	46.41	88	23.18	48	44.57	143
19	47.641	138	18.71	40	16.038	199	80.86	53	61.761	223	47.29	55	22.70	50	46.00	90
29	47.503	130	19.11	41	15.839	188	81.39	24	61.538	213	47.84	22	22.20	49	46.90	38
Mai 9	47.373	114	19.52	39	15.651	170	81.63	5	61.325	194	48.06	12	21.71	48	47.28	15
19	47.259	94	19.91	39	15.481	144	81.58	34	61.131	166	47.94	45	21.23	46	47.13	68
29	47.165	71	20.30	37	15.337	112	81.24	60	60.965	132	47.49	76	20.77	42	46.45	119
Juni 8	47.094	44	20.67	34	15.225	76	80.64	86	60.833	94	46.73	106	20.35	37	45.26	165
18	47.050	16	21.01	30	15.149	38	79.78	109	60.739	51	45.67	131	19.98	32	43.61	207
28	47.034	13	21.31	25	15.111	1	78.69	129	60.688	8	44.36	154	19.66	25	41.54	244
Juli 8	47.047	42	21.56	19	15.112	42	77.40	146	60.680	36	42.82	173	19.41	17	39.10	272
18	47.089	71	21.75	12	15.154	82	75.94	161	60.716	80	41.09	189	19.24	10	36.38	293
28	47.160	100	21.87	1	15.236	121	74.33	173	60.796	124	39.20	202	19.14	2	33.45	305
Aug. 7	47.260	128	21.88	10	15.357	159	72.60	183	60.920	167	37.18	210	19.12	8	30.40	305
17	47.388	156	21.78	25	15.516	197	70.77	189	61.087	209	35.08	217	19.20	16	27.35	297
27	47.544	184	21.53	41	15.713	233	68.88	194	61.296	249	32.91	219	19.36	25	24.38	276
Sept. 6	47.728	211	21.12	59	15.946	269	66.94	196	61.545	287	30.72	218	19.61	33	21.62	244
16	47.939	238	20.53	78	16.215	302	64.98	195	61.832	325	28.54	214	19.94	41	19.18	203
26	48.177	263	19.75	98	16.517	334	63.03	191	62.157	360	26.40	206	20.35	48	17.15	152
Okt. 6	48.440	287	18.77	117	16.851	363	61.12	184	62.517	392	24.34	193	20.83	54	15.63	95
16	48.727	308	17.60	135	17.214	389	59.28	171	62.909	420	22.41	177	21.37	59	14.68	31
26	49.035	323	16.25	150	17.603	408	57.57	154	63.329	441	20.64	156	21.96	61	14.37	35
Nov. 5	49.358	334	14.75	160	18.011	420	56.03	134	63.770	455	19.08	129	22.57	61	14.72	102
15	49.692	337	13.15	166	18.431	424	54.69	108	64.225	459	17.79	98	23.18	60	15.74	166
25	50.029	332	11.49	166	18.855	418	53.61	79	64.684	451	16.81	64	23.78	57	17.40	226
Dez. 5	50.361	317	9.83	161	19.273	399	52.82	46	65.135	432	16.17	28	24.35	52	19.66	279
15	50.678	292	8.22	150	19.672	369	52.36	12	65.567	400	15.89	11	24.87	45	22.45	324
25	50.970	259	6.72	135	20.041	327	52.24	23	65.967	355	16.00	49	25.32	36	25.69	358
35	51.229		5.37		20.368		52.47		66.322		16.49		25.68		29.27	
Mittl. Ort	46.250		19.26		14.057		71.26		59.572		36.08		22.66		28.16	
sec δ, tg δ	1.023		+0.214		1.347		+0.902		1.478		+1.088		2.471		−2.259	
a, *a'*	+3.3		−13.8		+3.9		−13.9		+4.1		−14.1		+1.0		−14.3	
b, *b'*	−0.01		−0.72		−0.04		−0.72		−0.05		−0.71		+0.11		−0.70	

Tag	344) σ² Ursae maj. AR.		Dekl.		345) λ Argus AR.		Dekl.		347) ϑ Hydrae AR.		Dekl.		348) β Argus AR.		Dekl.	
1932	9ʰ 4ᵐ		+67° 24′		9ʰ 5ᵐ		−43° 9′		9ʰ 10ᵐ		+2° 35′		9ʰ 12ᵐ		−69° 25′	
	s		″		s		″		s		″		s		″	
Jan. 1	30.02	51	38.40	163	30.652	236	12.92	349	50.786	239	71.30	179	29.55	36	55.60	365
11	30.53	41	40.03	201	30.888	179	16.41	356	51.025	195	69.51	162	29.91	24	59.25	385
21	30.94	29	42.04	230	31.067	116	19.97	353	51.220	148	67.89	141	30.15	12	63.10	394
31	31.23	17	44.34	250	31.183	53	23.50	342	51.368	98	66.48	119	30.27	0	67.04	393
Feb. 9	7 31.40	5	46.84	258	7 31.236	8	26.92	323	8 51.466	48	65.29	96	9 30.27	11	70.97	381
19	31.45	7	49.42	255	31.228	65	30.15	296	51.514	0	64.33	73	30.16	22	74.78	361
29	31.38	18	51.97	242	31.163	115	33.11	263	51.514	41	63.60	50	29.94	32	78.39	333
März 10	31.20	27	54.39	218	31.048	157	35.74	226	51.473	77	63.10	31	29.62	40	81.72	298
20	30.93	34	56.57	186	30.891	190	38.00	186	51.396	103	62.79	13	29.22	46	84.70	257
30	30.59	40	58.43	146	30.701	213	39.86	143	51.293	122	62.66	3	28.76	52	87.27	213
Apr. 9	30.19	44	59.89	101	30.488	227	41.29	98	51.171	131	62.69	17	28.24	55	89.40	164
19	29.75	45	60.90	54	30.261	231	42.27	52	51.040	132	62.86	28	27.69	57	91.04	112
29	29.30	43	61.44	4	30.030	227	42.79	6	50.908	127	63.14	38	27.12	58	92.16	59
Mai 9	28.87	41	61.48	45	29.803	216	42.85	40	50.781	115	63.52	48	26.54	57	92.75	5
19	28.46	37	61.03	92	29.587	197	42.45	83	50.666	99	64.00	55	25.97	55	92.80	48
29	28.09	31	60.11	136	29.390	175	41.62	124	50.567	77	64.55	61	25.42	51	92.32	100
Juni 8	27.78	25	58.75	175	29.215	147	40.38	163	50.490	55	65.16	65	24.91	46	91.32	149
18	27.53	18	57.00	210	29.068	115	38.75	196	50.435	30	65.81	67	24.45	40	89.83	194
28	27.35	9	54.90	240	28.953	79	36.79	223	50.405	4	66.48	68	24.05	33	87.89	232
Juli 8	27.26	2	52.50	263	28.874	41	34.56	244	50.401	24	67.16	66	23.72	25	85.57	264
18	27.24	7	49.87	281	28.833	1	32.12	258	50.425	51	67.82	61	23.47	15	82.93	288
28	27.31	15	47.06	294	28.832	42	29.54	262	50.476	78	68.43	53	23.32	6	80.05	303
Aug. 7	27.46	23	44.12	300	28.874	85	26.92	259	50.554	107	68.96	41	23.26	4	77.02	307
17	27.69	31	41.12	300	28.959	130	24.33	246	50.661	134	69.37	25	23.30	14	73.95	302
27	28.00	38	38.12	295	29.089	174	21.87	222	50.795	163	69.62	6	23.44	24	70.93	285
Sept. 6	28.38	45	35.17	285	29.263	219	19.65	189	50.958	191	69.68	16	23.68	35	68.08	256
16	28.83	52	32.32	268	29.482	261	17.76	148	51.149	219	69.52	41	24.03	44	65.52	218
26	29.35	58	29.64	247	29.743	300	16.28	100	51.368	246	69.11	68	24.47	53	63.34	170
Okt. 6	29.93	64	27.17	219	30.043	334	15.28	45	51.614	272	68.43	95	25.00	60	61.64	114
16	30.57	68	24.98	186	30.377	361	14.83	13	51.886	294	67.48	122	25.60	65	60.50	51
26	31.25	71	23.12	149	30.738	382	14.96	73	52.180	313	66.26	147	26.25	68	59.99	14
Nov. 5	31.96	74	21.63	106	31.120	392	15.69	132	52.493	325	64.79	168	26.93	70	60.13	82
15	32.70	74	20.57	60	31.512	390	17.01	188	52.818	331	63.11	184	27.63	69	60.95	147
25	33.44	72	19.97	10	31.902	377	18.89	239	53.149	328	61.27	194	28.32	65	62.42	209
Dez. 5	34.16	69	19.87	39	32.279	353	21.28	282	53.477	315	59.33	199	28.97	59	64.51	264
15	34.85	64	20.26	89	32.632	317	24.10	316	53.792	293	57.34	197	29.56	52	67.15	312
25	35.49	56	21.15	136	32.949	271	27.26	340	54.085	262	55.37	188	30.08	42	70.27	348
35	36.05		22.51		33.220		30.66		54.347		53.49		30.50		73.75	
Mittl. Ort	26.18		44.49		29.551		26.33		49.690		67.52		27.69		72.92	
sec δ, tg δ	2.604		+2.404		1.371		−0.938		1.001		+0.045		2.847		−2.666	
a, *a*′	+5.3		−14.4		+2.2		−14.5		+3.1		−14.8		+0.7		−14.9	
b, *b*′	−0.12		− 0.69		+0.05		− 0.69		0.00		− 0.67		+0.13		− 0.67	

Tag	350) 83 Cancri AR.	Δ	Dekl.	Δ	352) 40 Lyncis AR.	Δ	Dekl.	Δ
1932	9h 15m		+17° 59′		9h 16m		+34° 40′	
Jan. 1	12.631	259	40.76	99	56.693	295	48.99	9
11	12.890	215	39.77	74	56.988	245	48.90	24
21	13.105	164	39.03	48	57.233	188	49.14	54
31	13.269	112	38.55	23	57.421	128	49.68	79
Feb. 9*)	13.381	59	38.32	1	57.549	67	50.47	100
19	13.440	9	38.31	18	57.616	9	51.47	114
29	13.449	37	38.49	33	57.625	44	52.61	121
März 10	13.412	75	38.82	45	57.581	89	53.82	121
20	13.337	104	39.27	52	57.492	124	55.03	115
30	13.233	125	39.79	54	57.368	150	56.18	103
Apr. 9	13.108	136	40.33	54	57.218	164	57.21	87
19	12.972	138	40.87	51	57.054	169	58.08	68
29	12.834	133	41.38	45	56.885	163	58.76	46
Mai 9	12.701	122	41.83	39	56.722	150	59.22	22
19	12.579	104	42.22	30	56.572	131	59.44	1
29	12.475	82	42.52	23	56.441	106	59.43	24
Juni 8	12.393	57	42.75	14	56.335	77	59.19	47
18	12.336	32	42.89	4	56.258	45	58.72	68
28	12.304	3	42.93	5	56.213	13	58.04	86
Juli 8	12.301	25	42.88	15	56.200	21	57.18	104
18	12.326	54	42.73	26	56.221	56	56.14	121
28	12.380	82	42.47	38	56.277	90	54.93	135
Aug. 7	12.462	112	42.09	51	56.367	123	53.58	148
17	12.574	141	41.58	65	56.490	157	52.10	160
27	12.715	169	40.93	80	56.647	191	50.50	169
Sept. 6	12.884	199	40.13	96	56.838	224	48.81	177
16	13.083	228	39.17	112	57.062	257	47.04	184
26	13.311	256	38.05	128	57.319	289	45.20	187
Okt. 6	13.567	283	36.77	143	57.608	319	43.33	187
16	13 850	307	35.34	155	57.927	345	41.46	183
26	14.157	326	33.79	164	58.272	368	39.63	175
Nov. 5	14.483	341	32.15	168	58.640	384	37.88	161
15	14.824	348	30.47	169	59.024	392	36.27	144
25	15.172	346	28.78	163	59.416	390	34.83	121
Dez. 5	15.518	335	27.15	151	59.806	378	33.62	94
15	15.853	313	25.64	135	60.184	355	32.68	63
25	16.166	283	24.29	114	60.539	320	32.05	31
35	16.449		23.15		60.859		31.74	
Mittl. Ort	11.377		40.52		55.114		52.12	
sec δ, tg δ	1.051		+0.325		1.216		+0.692	
a, *a*′	+3.4		−15.1		+3.7		−15.2	
b, *b*′	−0.02		− 0.66		−0.03		− 0.65	

Tag	353) κ Argus AR.	Δ	Dekl.	Δ	354) α Hydrae AR.	Δ	Dekl.	Δ
1932	9h 19m		−54° 42′		9h 24m		−8° 21′	
Jan. 1	61.536	282	55.30	360	15.760	243	40.77	232
11	61.818	212	58.90	376	16.003	201	43.09	223
21	62.030	137	62.66	380	16.204	153	45.32	206
31	62.167	61	66.46	376	16.357	104	47.38	186
Feb. 9*)	62.228	14	70.22	362	16.461	54	49.24	164
19	62.214	83	73.84	339	16.515	7	50.88	138
29	62.131	145	77.23	309	16.522	35	52.26	112
März 10	61.986	199	80.32	274	16.487	71	53.38	87
20	61.787	242	83.06	234	16.416	98	54.25	61
30	61.545	274	85.40	189	16.318	118	54.86	37
Apr. 9	61.271	296	87.29	142	16.200	130	55.23	15
19	60.975	307	88.71	93	16.070	134	55.38	8
29	60.668	309	89.64	43	15.936	130	55.30	28
Mai 9	60.359	301	90.07	8	15.806	122	55.02	47
19	60.058	286	89.99	57	15.684	107	54.55	64
29	59.772	262	89.42	105	15.577	89	53.91	79
Juni 8	59.510	232	88.37	150	15.488	69	53.12	93
18	59.278	196	86.87	189	15.419	46	52.19	104
28	59.082	155	84.98	225	15.373	21	51.15	112
Juli 8	58.927	108	82.73	253	15.352	5	50.03	116
18	58.819	57	80.20	273	15.357	31	48.87	115
28	58.762	2	77.47	285	15.388	59	47.72	111
Aug. 7	58.760	54	74.62	286	15.447	87	46.61	100
17	58.814	114	71.76	279	15.534	116	45.61	86
27	58.928	174	68.97	259	15.650	145	44.75	66
Sept. 6	59.102	233	66.38	231	15.795	176	44.09	40
16	59.335	290	64.07	192	15.971	206	43.69	10
26	59.625	343	62.15	144	16.177	236	43.59	22
Okt. 6	59.968	389	60.71	89	16.413	263	43.81	58
16	60.357	426	59.82	28	16.676	288	44.39	94
26	60.783	453	59.54	35	16.964	309	45.33	129
Nov. 5	61.236	467	59.89	100	17.273	324	46.62	162
15	61.703	468	60.89	162	17.597	330	48.24	189
25	62.171	452	62.51	219	17.927	328	50.13	212
Dez. 5	62.623	423	64.70	270	18.255	318	52.25	228
15	63.046	380	67.40	314	18.573	296	54.53	236
25	63.426	323	70.54	346	18.869	267	56.89	236
35	63.749		74.00		19.136		59.25	
Mittl. Ort	60.374		70.96		14.792		46.76	
sec δ, tg δ	1.731		−1.413		1.011		−0.147	
a, *a*′	+1.9		−15.4		+2.9		−15.6	
b, *b*′	+0.07		− 0.64		+0.01		− 0.63	

*) Bei Stern 352), 353) und 354) lies Feb. 10

Tag	355) *h* Ursae maj.				359) ψ Argus				358) ϑ Ursae maj.				357) *d* Ursae maj.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$9^h 26^m$		$+63° 21'$		$9^h 28^m$		$-40° 9'$		$9^h 28^m$		$+51° 58'$		$9^h 28^m$		$+70° 7'$	
	s		"		s		"		s		"		s		"	
Jan. 1	14.55	49	30.13	125	2.106	260	52.50	336	21.488	378	71.18	69	34.44	61	42.08	151
11	15.04	40	31.38	167	2.366	206	55.86	345	21.866	315	71.87	110	35.05	51	43.59	194
21	15.44	30	33.05	202	2.572	148	59.31	346	22.181	244	72.97	144	35.56	38	45.53	228
31	15.74	20	35.07	227	2.720	88	62.77	337	22.425	168	74.41	171	35.94	24	47.81	254
Feb. 10	15.94	10	37.34	242	2.808	29	66.14	319	22.593	88	76.12	190	36.18	11	50.35	267
19	16.04	0	39.76	248	2.837	27	69.33	296	22.681	11	78.02	200	36.29	2	53.02	270
29	16.04	10	42.24	241	2.810	78	72.29	267	22.692	59	80.02	200	36.27	15	55.72	261
März 10	15.94	19	44.65	224	2.732	120	74.96	232	22.633	122	82.02	191	36.12	26	58.33	242
20	15.75	26	46.89	199	2.612	155	77.28	194	22.511	173	83.93	173	35.86	36	60.75	211
30	15.49	31	48.88	165	2.457	180	79.22	154	22.338	211	85.66	149	35.50	43	62.86	174
Apr. 9	15.18	35	50.53	125	2.277	196	80.76	112	22.127	235	87.15	118	35.07	47	64.60	130
19	14.83	36	51.78	82	2.081	205	81.88	69	21.892	247	88.33	83	34.60	50	65.90	81
29	14.47	36	52.60	35	1.876	205	82.57	24	21.645	245	89.16	46	34.10	51	66.71	31
Mai 9	14.11	35	52.95	12	1.671	199	82.81	19	21.400	232	89.62	7	33.59	49	67.02	21
19	13.76	32	52.83	58	1.472	185	82.62	61	21.168	211	89.69	32	33.10	46	66.81	71
29	13.44	28	52.25	102	1.287	167	82.01	102	20.957	180	89.37	69	32.64	40	66.10	119
Juni 8	13.16	23	51.23	144	1.120	144	80.99	139	20.777	144	88.68	104	32.24	34	64.91	163
18	12.93	17	49.79	180	0.976	118	79.60	172	20.633	104	87.64	136	31.90	27	63.28	203
28	12.76	11	47.99	212	0.858	88	77.88	201	20.529	61	86.28	165	31.63	18	61.25	236
Juli 8	12.65	4	45.87	240	0.770	54	75.87	223	20.468	15	84.63	191	31.45	10	58.89	266
18	12.61	2	43.47	262	0.716	18	73.64	239	20.453	32	82.72	212	31.35	0	56.23	288
28	12.63	9	40.85	279	0.698	20	71.25	247	20.485	79	80.60	229	31.35	8	53.35	305
Aug. 7	12.72	16	38.06	291	0.718	60	68.78	245	20.564	125	78.31	243	31.43	18	50.30	316
17	12.88	22	35.15	296	0.778	102	66.33	235	20.689	173	75.88	252	31.61	26	47.14	320
27	13.10	29	32.19	297	0.880	146	63.98	216	20.862	219	73.36	257	31.87	35	43.94	319
Sept. 6	13.39	35	29.22	292	1.026	189	61.82	187	21.081	264	70.79	258	32.22	44	40.75	311
16	13.74	41	26.30	282	1.215	231	59.95	149	21.345	309	68.21	255	32.66	52	37.64	297
26	14.15	47	23.48	265	1.446	272	58.46	105	21.654	352	65.66	246	33.18	59	34.67	277
Okt. 6	14.62	52	20.83	244	1.718	309	57.41	54	22.006	392	63.20	233	33.77	66	31.90	251
16	15.14	57	18.39	216	2.027	340	56.87	2	22.398	427	60.87	215	34.43	72	29.39	219
26	15.71	61	16.23	182	2.367	365	56.89	59	22.825	458	58.72	191	35.15	77	27.20	181
Nov. 5	16.32	63	14.41	144	2.732	380	57.48	117	23.283	480	56.81	162	35.92	80	25.39	137
15	16.95	64	12.97	100	3.112	385	58.65	172	23.763	491	55.19	127	36.72	82	24.02	89
25	17.59	64	11.97	53	3.497	378	60.37	222	24.254	491	53.92	88	37.54	81	23.13	38
Dez. 5	18.23	62	11.44	3	3.875	361	62.59	266	24.745	478	53.04	46	38.35	79	22.75	15
15	18.85	58	11.41	47	4.236	331	65.25	301	25.223	450	52.58	2	39.14	74	22.90	69
25	19.43	53	11.88	95	4.567	290	68.26	326	25.673	409	52.56	40	39.88	66	23.59	120
35	19.96		12.83		4.857		71.52		26.082		52.96		40.54		24.79	
Mittl. Ort	11.40		37.89		1.176		65.70		19.280		77.86		30.25		50.55	
sec δ, tg δ	2.230		+1.994		1.309		−0.844		1.624		+1.279		2.942		+2.767	
a, *a'*	+4.7		−15.7		+2.4		−15.8		+4.1		−15.8		+5.3		−15.8	
b, *b'*	−0.10		−0.62		+0.04		−0.62		−0.07		−0.61		−0.15		−0.61	

Tag	360) 10 Leonis min. AR.		360) Dekl.		366) ϑ Antliae AR.		366) Dekl.		367) ε Leonis AR.		367) Dekl.		369) υ Argus AR.		369) Dekl.	
1932	$9^h 30^m$		+36° 41′		$9^h 41^m$		−27° 27′		$9^h 41^m$		+24° 4′		$9^h 45^m$		−64° 45′	
	s		″		s		″		s		″		s		″	
Jan. 1	5.469	313	57.37	7	10.976	261	16.27	301	60.997	290	74.96	81	25.33	39	4.47	349
11	5.782	263	57.30	28	11.237	215	19.28	305	61.287	248	74.15	51	25.72	30	7.96	374
21	6.045	207	57.58	60	11.452	166	22.33	300	61.535	198	73.64	21	26.02	20	11.70	389
31	6.252	147	58.18	87	11.618	112	25.33	288	61.733	145	73.43	7	26.22	11	15.59	393
Feb. 10	[13] 6.399	84	59.05	110	[16] 11.730	59	28.21	269	[16] 61.878	90	73.50	33	[17] 26.33	1	19.52	388
19	6.483	24	60.15	125	11.789	9	30.90	245	61.968	37	73.83	54	26.34	8	23.40	373
29	6.507	31	61.40	134	11.798	38	33.35	217	62.005	11	74.37	69	26.26	17	27.13	350
März 10	6.476	79	62.74	135	11.760	76	35.52	186	61.994	54	75.06	79	26.09	24	30.63	320
20	6.397	117	64.09	128	11.684	108	37.38	153	61.940	89	75.85	85	25.85	30	33.83	283
30	6.280	146	65.37	117	11.576	131	38.91	118	61.851	114	76.70	84	25.55	36	36.66	242
Apr. 9	6.134	163	66.54	100	11.445	148	40.09	83	61.737	131	77.54	79	25.19	39	39.08	196
19	5.971	170	67.54	78	11.297	155	40.92	47	61.606	138	78.33	70	24.80	42	41.04	148
29	5.801	168	68.32	55	11.142	156	41.39	12	61.468	138	79.03	59	24.38	43	42.52	96
Mai 9	5.633	157	68.87	29	10.986	152	41.51	23	61.330	130	79.62	46	23.95	44	43.48	43
19	5.476	140	69.16	3	10.834	140	41.28	57	61.200	117	80.08	31	23.51	42	43.91	9
29	5.336	117	69.19	22	10.694	126	40.71	88	61.083	98	80.39	16	23.09	41	43.82	62
Juni 8	5.219	90	68.97	48	10.568	107	39.83	118	60.985	77	80.55	0	22.68	38	43.20	112
18	5.129	59	68.49	71	10.461	85	38.65	143	60.908	53	80.55	15	22.30	34	42.08	158
28	5.070	27	67.78	93	10.376	62	37.22	164	60.855	27	80.40	31	21.96	29	40.50	201
Juli 8	5.043	6	66.85	113	10.314	34	35.58	181	60.828	1	80.09	46	21.67	23	38.49	237
18	5.049	40	65.72	131	10.280	5	33.77	192	60.829	29	79.63	62	21.44	17	36.12	265
28	5.089	75	64.41	148	10.275	25	31.85	196	60.858	57	79.01	77	21.27	9	33.47	286
Aug. 7	5.164	109	62.93	163	10.300	58	29.89	192	60.915	87	78.24	92	21.18	1	30.61	296
17	5.273	144	61.30	175	10.358	92	27.97	181	61.002	117	77.32	108	21.17	7	27.65	297
27	5.417	179	59.55	185	10.450	127	26.16	163	61.119	148	76.24	123	21.24	15	24.68	287
Sept. 6	5.596	215	57.70	195	10.577	164	24.53	136	61.267	180	75.01	137	21.39	24	21.81	264
16	5.811	249	55.75	200	10.741	201	23.17	103	61.447	212	73.64	152	21.63	32	19.17	232
26	6.060	283	53.75	203	10.942	237	22.14	62	61.659	243	72.12	165	21.95	40	16.85	190
Okt. 6	6.343	315	51.72	202	11.179	270	21.52	17	61.902	274	70.47	175	22.35	47	14.95	139
16	6.658	345	49.70	198	11.449	301	21.35	31	62.176	304	68.72	182	22.82	53	13.56	80
26	7.003	370	47.72	189	11.750	325	21.66	81	62.480	328	66.90	187	23.35	57	12.76	17
Nov. 5	7.373	389	45.83	173	12.075	343	22.47	129	62.808	347	65.03	185	23.92	59	12.59	50
15	7.762	400	44.10	154	12.418	353	23.76	176	63.155	360	63.18	178	24.51	61	13.09	116
25	8.162	401	42.56	129	12.771	351	25.52	217	63.515	363	61.40	167	25.12	59	14.25	178
Dez. 5	8.563	391	41.27	99	13.122	340	27.69	251	63.878	356	59.73	149	25.71	56	16.03	236
15	8.954	370	40.28	66	13.462	318	30.20	279	64.234	339	58.24	127	26.27	51	18.39	287
25	9.324	337	39.62	31	13.780	285	32.99	295	64.573	312	56.97	100	26.78	43	21.26	329
35	9.661		39.31		14.065		35.94		64.885		55.97		27.21		24.55	
Mittl. Ort	3.884		61.77		10.151		26.71		59.745		77.49		24.18		22.21	
sec δ, tg δ	1.247		+0.745		1.127		−0.520		1.095		+0.447		2.345		−2.121	
a, a′	+3.7		−15.9		+2.7		−16.5		+3.4		−16.5		+1.5		−16.7	
b, b′	−0.04		− 0.61		+0.03		− 0.57		−0.02		− 0.57		+0.12		− 0.55	

Tag	368) υ Ursae maj. AR.		368) Dekl.		370) 6 Sextantis AR.		370) Dekl.		372) Grb 1586 AR.		372) Dekl.		378) π Leonis AR.		378) Dekl.	
1932	$9^h 46^m$		$+59° 21'$		$9^h 47^m$		$-3° 55'$		$9^h 52^m$		$+73° 11'$		$9^h 56^m$		$+8° 21'$	
Jan. 1	12.932	461	25.73	87	49.375	264	21.87	217	25.50	75	63.78	136	38.292	278	77.05	165
11	13.393	392	26.60	132	49.639	224	24.04	204	26.25	63	65.14	184	38.570	240	75.40	143
21	13.785	310	27.92	171	49.863	179	26.08	187	26.88	50	66.98	223	38.810	195	73.97	120
31	14.095	221	29.63	201	50.042	130	27.95	166	27.38	35	69.21	255	39.005	146	72.77	94
Feb. 10	14.316	129	31.64	223	50.172	81	29.61	142	27.73	19	71.76	274	39.151	97	71.83	68
19*)	14.445	36	33.87	234	50.253	34	31.03	117	27.92	3	74.50	281	39.248	47	71.15	44
29	14.481	51	36.21	234	50.287	10	32.20	93	27.95	11	77.31	278	39.295	3	70.71	21
März 10	14.430	128	38.55	225	50.277	47	33.13	69	27.84	25	80.09	261	39.298	36	70.50	2
20	14.302	194	40.80	206	50.230	78	33.82	46	27.59	38	82.70	235	39.262	69	70.48	14
30	14.108	246	42.86	178	50.152	100	34.28	24	27.21	47	85.05	199	39.193	93	70.62	27
April 9	13.862	282	44.64	143	50.052	114	34.52	5	26.74	54	87.04	157	39.100	109	70.89	36
19	13.580	303	46.07	104	49.938	122	34.57	12	26.20	59	88.61	108	38.991	118	71.25	43
29	13.277	309	47.11	61	49.816	122	34.45	28	25.61	61	89.69	56	38.873	120	71.68	48
Mai 9	12.968	301	47.72	17	49.694	117	34.17	43	25.00	60	90.25	3	38.753	115	72.16	50
19	12.667	281	47.89	28	49.577	106	33.74	56	24.40	58	90.28	50	38.638	105	72.66	50
29	12.386	251	47.61	72	49.471	92	33.18	67	23.82	53	89.78	100	38.533	92	73.16	49
Juni 8	12.135	213	46.89	113	49.379	75	32.51	75	23.29	46	88.78	149	38.441	75	73.65	47
18	11.922	168	45.76	151	49.304	55	31.76	83	22.83	39	87.29	193	38.366	55	74.12	44
28	11.754	118	44.25	186	49.249	34	30.93	87	22.44	30	85.36	232	38.311	34	74.56	38
Juli 8	11.636	66	42.39	216	49.215	10	30.06	89	22.14	21	83.04	265	38.277	11	74.94	31
18	11.570	10	40.23	241	49.205	15	29.17	87	21.93	11	80.39	293	38.266	13	75.25	23
28	11.560	46	37.82	262	49.220	40	28.30	81	21.82	0	77.46	314	38.279	38	75.48	11
Aug. 7	11.606	104	35.20	277	49.260	67	27.49	71	21.82	11	74.32	329	38.317	65	75.59	1
17	11.710	161	32.43	289	49.327	95	26.78	57	21.93	20	71.03	338	38.382	92	75.58	17
27	11.871	219	29.54	294	49.422	125	26.21	38	22.13	32	67.65	340	38.474	121	75.41	36
Sept. 6	12.090	276	26.60	294	49.547	155	25.83	14	22.45	42	64.25	335	38.595	152	75.05	55
16	12.366	332	23.66	290	49.702	187	25.69	12	22.87	52	60.90	324	38.747	183	74.50	78
26	12.698	386	20.76	279	49.889	218	25.81	42	23.39	62	57.66	306	38.930	215	73.72	101
Okt. 6	13.084	437	17.97	262	50.107	249	26.23	73	24.01	70	54.60	281	39.145	246	72.71	124
16	13.521	483	15.35	239	50.356	277	26.96	106	24.71	78	51.79	250	39.391	275	71.47	145
26	14.004	522	12.96	211	50.633	300	28.02	137	25.49	85	49.29	213	39.666	301	70.02	166
Nov. 5	14.526	553	10.85	177	50.933	319	29.39	165	26.34	90	47.16	168	39.967	321	68.36	181
15	15.079	572	9.08	136	51.252	331	31.04	188	27.24	93	45.48	119	40.288	335	66.55	192
25	15.651	576	7.72	91	51.583	334	32.92	208	28.17	93	44.29	66	40.623	341	64.63	198
Dez. 5	16.227	565	6.81	44	51.917	327	35.00	219	29.10	92	43.63	9	40.964	336	62.65	197
15	16.792	538	6.37	7	52.244	311	37.19	225	30.02	87	43.54	47	41.300	322	60.68	190
25	17.330	494	6.44	56	52.555	284	39.44	222	30.89	80	44.01	102	41.622	298	58.78	176
35	17.824		7.00		52.839		41.66		31.69		45.03		41.920		57.02	
Mittl. Ort	10.308		34.80		48.482		26.16		20.79		74.56		37.324		76.37	
sec δ, tg δ	1.962		+1.688		1.002		−0.069		3.461		+3.313		1.011		+0.147	
a, *a'*	+4.3		−16.7		+3.0		−16.8		+5.4		−17.0		+3.2		−17.2	
b, *b'*	−0.09		− 0.55		0.00		− 0.55		−0.19		− 0.53		−0.01		− 0.51	

*) Bei Stern 378) lies Feb. 20

Tag	379) η Leonis AR.		Dekl.		380) α Leonis AR.		Dekl.		381) λ Hydrae AR.		Dekl.		382) q Velorum AR.		Dekl.	
1932	10h 3m		+17° 5′		10h 4m		+12° 17′		10h 7m		−12° 0′		10h 11m		−41° 46′	
Jan. 1	38.744	293	39.85	127	46.162	288	59.94	149	17.132	277	56.18	250	53.244	312	50.20	320
11	39.037	256	38.58	100	46.450	250	58.45	126	17.409	238	58.68	243	53.556	263	53.40	338
21	39.293	210	37.58	71	46.700	205	57.19	100	17.647	194	61.11	231	53.819	208	56.78	345
31	39.503	160	36.87	42	46.905	157	56.19	72	17.841	146	63.42	215	54.027	150	60.23	344
Feb. 10	39.663	108	36.45	15	47.062	106	55.47	45	17.987	97	65.57	193	54.177	90	63.67	334
20	39.771	58	36.30	9	47.168	57	55.02	20	18.084	49	67.50	169	54.267	33	67.01	317
29	39.829	11	36.39	30	47.225	11	54.82	1	18.133	5	69.19	143	54.300	21	70.18	293
März 10	39.840	31	36.69	46	47.236	29	54.83	20	18.138	33	70.62	117	54.279	68	73.11	264
20	39.809	65	37.15	58	47.207	63	55.03	34	18.105	66	71.79	90	54.211	108	75.75	231
30	39.744	92	37.73	64	47.144	89	55.37	45	18.039	90	72.69	65	54.103	140	78.06	195
Apr. 9	39.652	110	38.37	67	47.055	107	55.82	52	17.949	108	73.34	39	53.963	165	80.01	155
19	39.542	121	39.04	66	46.948	116	56.34	54	17.841	118	73.73	15	53.798	181	81.56	114
29	39.421	124	39.70	61	46.832	120	56.88	55	17.723	122	73.88	7	53.617	191	82.70	71
Mai 9	39.297	120	40.31	55	46.712	117	57.43	53	17.601	120	73.81	29	53.426	193	83.41	28
19	39.177	111	40.86	47	46.595	108	57.96	50	17.481	113	73.52	49	53.233	188	83.69	15
29	39.066	97	41.33	37	46.487	95	58.46	45	17.368	103	73.03	67	53.045	180	83.54	57
Juni 8	38.969	81	41.70	26	46.392	79	58.91	38	17.265	89	72.36	83	52.865	166	82.97	97
18	38.888	61	41.96	15	46.313	60	59.29	31	17.176	71	71.53	97	52.699	148	82.00	133
28	38.827	40	42.11	3	46.253	40	59.60	22	17.105	53	70.56	108	52.551	124	80.67	167
Juli 8	38.787	16	42.14	10	46.213	17	59.82	13	17.052	32	69.48	116	52.427	97	79.00	195
18	38.771	8	42.04	24	46.196	7	59.95	1	17.020	8	68.32	119	52.330	66	77.05	217
28	38.779	34	41.80	38	46.203	31	59.96	12	17.012	17	67.13	117	52.264	31	74.88	231
Aug. 7	38.813	61	41.42	54	46.234	58	59.84	26	17.029	44	65.96	110	52.233	7	72.57	238
17	38.874	90	40.88	71	46.292	85	59.58	42	17.073	72	64.86	99	52.240	49	70.19	236
27	38.964	119	40.17	88	46.377	115	59.16	60	17.145	103	63.87	82	52.289	94	67.83	224
Sept. 6	39.083	151	39.29	107	46.492	146	58.56	79	17.248	136	63.05	58	52.383	141	65.59	204
16	39.234	183	38.22	125	46.638	178	57.77	101	17.384	169	62.47	30	52.524	188	63.55	174
26	39.417	215	36.97	143	46.816	210	56.76	121	17.553	204	62.17	2	52.712	236	61.81	135
Okt. 6	39.632	248	35.54	160	47.026	242	55.55	141	17.757	237	62.19	38	52.948	280	60.46	90
16	39.880	278	33.94	175	47.268	272	54.14	160	17.994	269	62.57	75	53.228	322	59.56	38
26	40.158	306	32.19	186	47.540	300	52.54	177	18.263	296	63.32	113	53.550	356	59.18	18
Nov. 5	40.464	329	30.33	194	47.840	322	50.77	188	18.559	317	64.45	149	53.906	381	59.36	75
15	40.793	344	28.39	195	48.162	337	48.89	196	18.876	333	65.94	181	54.287	397	60.11	131
25	41.137	351	26.44	191	48.499	345	46.93	196	19.209	338	67.75	208	54.684	402	61.42	184
Dez. 5	41.488	349	24.53	181	48.844	342	44.97	191	19.547	335	69.83	230	55.086	393	63.26	233
15	41.837	336	22.72	164	49.186	329	43.06	181	19.882	320	72.13	243	55.479	371	65.59	273
25	42.173	312	21.08	144	49.515	306	41.25	164	20.202	296	74.56	250	55.850	339	68.32	306
35	42.485		19.64		49.821		39.61		20.498		77.06		56.189		71.38	
Mittl. Ort	37.698		41.81		45.185		60.67		16.387		62.22		52.618		64.03	
sec δ, tg δ	1.046		+0.308		1.023		+0.218		1.022		−0.213		1.341		−0.894	
a, a′	+3.3		−17.5		+3.2		−17.6		+2.9		−17.7		+2.5		−17.9	
b, b′	−0.02		−0.49		−0.01		−0.48		+0.01		−0.47		+0.05		−0.45	

Tag	384) ζ Leonis AR.		Dekl.		383) λ Ursae maj. AR.		Dekl.	
1932	10h 12m		+23° 45′		10h 13m		+43° 14′	
Jan. 1	55.855	311	20.68	102	1.845	372	67.90	12
11	56.166	273	19.66	69	2.217	326	67.78	32
21	56.439	227	18.97	37	2.543	270	68.10	72
31	56.666	176	18.60	5	2.813	209	68.82	108
Feb. 10	56.842	123	18.55	24	3.022	142	69.90	137
20	[24] 56.965	70	18.79	49	[24] 3.164	77	71.27	160
29	57.035	20	19.28	69	3.241	15	72.87	173
März 10	57.055	24	19.97	83	3.256	42	74.60	178
20	57.031	61	20.80	92	3.214	91	76.38	174
30	56.970	91	21.72	94	3.123	130	78.12	162
Apr. 9	56.879	112	22.66	92	2.993	158	79.74	143
19	56.767	124	23.58	85	2.835	176	81.17	120
29	56.643	130	24.43	74	2.659	184	82.37	91
Mai 9	56.513	128	25.17	61	2.475	183	83.28	59
19	56.385	120	25.78	46	2.292	174	83.87	26
29	56.265	107	26.24	29	2.118	159	84.13	7
Juni 8	56.158	91	26.53	12	1.959	137	84.06	41
18	56.067	71	26.65	5	1.822	111	83.65	73
28	55.996	50	26.60	23	1.711	83	82.92	104
Juli 8	55.946	26	26.37	41	1.628	51	81.88	132
18	55.920	1	25.96	58	1.577	18	80.56	158
28	55.919	25	25.38	76	1.559	18	78.98	181
Aug. 7	55.944	53	24.62	94	1.577	54	77.17	202
17	55.997	83	23.68	111	1.631	92	75.15	219
27	56.080	114	22.57	129	1.723	131	72.96	234
Sept. 6	56.194	146	21.28	146	1.854	172	70.62	245
16	56.340	180	19.82	162	2.026	214	68.17	252
26	56.520	214	18.20	177	2.240	255	65.65	255
Okt. 6	56.734	249	16.43	190	2.495	296	63.10	254
16	56.983	282	14.53	199	2.791	335	60.56	247
26	57.265	311	12.54	204	3.126	370	58.09	234
Nov. 5	57.576	336	10.50	205	3.496	399	55.75	215
15	57.912	354	8.45	200	3.895	421	53.60	190
25	58.266	363	6.45	189	4.316	432	51.70	160
Dez. 5	58.629	363	4.56	171	4.748	432	50.10	123
15	58.992	352	2.85	148	5.180	418	48.87	82
25	59.344	329	1.37	122	5.598	392	48.05	40
35	59.673		0.15		5.990		47.65	
Mittl. Ort	54.747		24.84		0.258		76.51	
sec δ, tg δ	1.093		+0.440		1.373		+0.941	
a, *a′*	+3.3		−17.9		+3.6		−17.9	
b, *b′*	−0.03		− 0.45		−0.06		− 0.45	

Tag	386) μ Ursae maj. AR.		Dekl.		387) 30 H. Ursae maj. AR.		Dekl.	
1932	10h 18m		+41° 50′		10h 19m		+65° 54′	
Jan. 1	18.683	369	22.86	23	18.10	60	27.69	77
11	19.052	325	22.63	20	18.70	52	28.46	130
21	19.377	272	22.83	62	19.22	43	29.76	175
31	19.649	211	23.45	98	19.65	32	31.51	212
Feb. 10	19.860	148	24.43	128	19.97	22	33.63	241
20	[25] 20.008	83	25.71	152	[26] 20.19	11	36.04	258
29	20.091	22	27.23	167	20.30	1	38.62	265
März 10	20.113	34	28.90	173	20.29	10	41.27	259
20	20.079	81	30.63	171	20.19	20	43.86	242
30	19.998	120	32.34	161	19.99	27	46.28	217
Apr. 9	19.878	149	33.95	145	19.72	33	48.45	182
19	19.729	168	35.40	122	19.39	37	50.27	140
29	19.561	176	36.62	95	19.02	40	51.67	95
Mai 9	19.385	176	37.57	65	18.62	39	52.62	48
19	19.209	169	38.22	32	18.23	39	53.10	3
29	19.040	154	38.54	0	17.84	37	53.07	52
Juni 8	18.886	134	38.54	32	17.47	33	52.55	99
18	18.752	111	38.22	65	17.14	29	51.56	145
28	18.641	84	37.57	95	16.85	23	50.11	186
Juli 8	18.557	53	36.62	123	16.62	18	48.25	222
18	18.504	22	35.39	149	16.44	11	46.03	255
28	18.482	12	33.90	173	16.33	4	43.48	282
Aug. 7	18.494	47	32.17	194	16.29	3	40.66	303
17	18.541	84	30.23	212	16.32	10	37.63	319
27	18.625	122	28.11	228	16.42	17	34.44	328
Sept. 6	18.747	163	25.83	241	16.59	24	31.16	332
16	18.910	203	23.42	249	16.83	32	27.84	329
26	19.113	244	20.93	253	17.15	40	24.55	320
Okt. 6	19.357	285	18.40	253	17.55	46	21.35	304
16	19.642	325	15.87	248	18.01	53	18.31	281
26	19.967	359	13.39	238	18.54	58	15.50	251
Nov. 5	20.326	389	11.01	220	19.12	63	12.99	213
15	20.715	411	8.81	196	19.75	67	10.86	171
25	21.126	424	6.85	167	20.42	69	9.15	122
Dez. 5	21.550	425	5.18	132	21.11	69	7.93	68
15	21.975	413	3.86	93	21.80	67	7.25	14
25	22.388	389	2.93	51	22.47	62	7.11	43
35	22.777		2.42		23.09		7.54	
Mittl. Ort	17.173		31.55		15.06		40.16	
sec δ, tg δ	1.342		+0.895		2.450		+2.237	
a, *a′*	+3.6		−18.1		+4.3		−18.1	
b, *b′*	−0.05		− 0.43		−0.13		− 0.43	

Tag	389) μ Hydrae AR.	Diff.	389) μ Hydrae Dekl.	Diff.	391) J Carinae AR.	Diff.	391) J Carinae Dekl.	Diff.	390) 31 Leonis min. AR.	Diff.	390) 31 Leonis min. Dekl.	Diff.	392) Lac. α Antliae AR.	Diff.	392) Lac. α Antliae Dekl.	Diff.
1932	$10^h 22^m$		$-16° 29'$		$10^h 22^m$		$-73° 40'$		$10^h 23^m$		$+37° 2'$		$10^h 24^m$		$-30° 43'$	
Jan. 1	48.707	289	12.08	263	63.76	64	46.78	314	58.833	354	74.65	49	2.828	302	4.74	296
11	48.996	252	14.71	261	64.40	51	49.92	349	59.187	313	74.16	8	3.130	262	7.70	307
21	49.248	208	17.32	253	64.91	39	53.41	376	59.500	263	74.08	31	3.392	214	10.77	310
31	49.456	161	19.85	239	65.30	26	57.17	393	59.763	208	74.39	68	3.606	162	13.87	303
Feb. 10	49.617	112	22.24	220	65.56	12	61.10	398	59.971	148	75.07	100	3.768	110	16.90	290
20	49.729	64	24.44	197	65.68	2	65.08	395	60.119	87	76.07	125	3.878	58	19.80	272
29	49.793	19	26.41	172	65.66	15	69.03	383	60.206	31	77.32	143	3.936	10	22.52	247
März 10	49.812	21	28.13	145	65.51	26	72.86	362	60.237	22	78.75	152	3.946	33	24.99	220
20	49.791	54	29.58	117	65.25	37	76.48	334	60.215	67	80.27	154	3.913	69	27.19	188
30	49.737	81	30.75	90	64.88	46	79.82	299	60.148	103	81.81	149	3.844	99	29.07	156
Apr. 9	49.656	101	31.65	62	64.42	54	82.81	260	60.045	131	83.30	136	3.745	121	30.63	122
19	49.555	113	32.27	36	63.88	60	85.41	214	59.914	148	84.66	118	3.624	136	31.85	86
29	49.442	120	32.63	9	63.28	64	87.55	166	59.766	157	85.84	95	3.488	145	32.71	50
Mai 9	49.322	121	32.72	15	62.64	67	89.21	114	59.609	158	86.79	70	3.343	148	33.21	15
19	49.201	117	32.57	39	61.97	68	90.35	60	59.451	151	87.49	42	3.195	145	33.36	21
29	49.084	109	32.18	61	61.29	68	90.95	5	59.300	140	87.91	13	3.050	138	33.15	54
Juni 8	48.975	98	31.57	81	60.61	66	91.00	48	59.160	122	88.04	16	2.912	127	32.61	87
18	48.877	83	30.76	99	59.95	61	90.52	101	59.038	101	87.88	45	2.785	112	31.74	117
28	48.794	66	29.77	114	59.34	56	89.51	150	58.937	77	87.43	73	2.673	94	30.57	143
Juli 8	48.728	47	28.63	125	58.78	49	88.01	195	58.860	50	86.70	99	2.579	73	29.14	163
18	48.681	25	27.38	131	58.29	41	86.06	233	58.810	22	85.71	125	2.506	48	27.51	180
28	48.656	1	26.07	133	57.88	30	83.73	265	58.788	9	84.46	147	2.458	20	25.71	191
Aug. 7	48.655	26	24.74	130	57.58	18	81.08	286	58.797	40	82.99	169	2.438	11	23.80	193
17	48.681	55	23.44	120	57.40	6	78.22	300	58.837	74	81.30	188	2.449	45	21.87	189
27	48.736	87	22.24	105	57.34	7	75.22	300	58.911	110	79.42	205	2.494	82	19.98	177
Sept. 6	48.823	121	21.19	83	57.41	21	72.22	291	59.021	147	77.37	220	2.576	122	18.21	157
16	48.944	156	20.36	55	57.62	35	69.31	270	59.168	186	75.17	230	2.698	162	16.64	128
26	49.100	193	19.81	22	57.97	47	66.61	237	59.354	225	72.87	239	2.860	204	15.36	92
Okt. 6	49.293	229	19.59	14	58.44	60	64.24	194	59.579	264	70.48	243	3.064	244	14.44	51
16	49.522	262	19.73	54	59.04	70	62.30	143	59.843	302	68.05	242	3.308	282	13.93	5
26	49.784	293	20.27	94	59.74	78	60.87	84	60.145	337	65.63	236	3.590	316	13.88	45
Nov. 5	50.077	318	21.21	134	60.52	85	60.03	19	60.482	367	63.27	224	3.906	342	14.33	95
15	50.395	335	22.55	170	61.37	87	59.84	48	60.849	388	61.03	205	4.248	360	15.28	143
25	50.730	344	24.25	202	62.24	87	60.32	114	61.237	401	58.98	180	4.608	367	16.71	189
Dez. 5	51.074	342	26.27	229	63.11	84	61.46	176	61.638	404	57.18	150	4.975	365	18.60	229
15	51.416	330	28.56	248	63.95	79	63.22	235	62.042	394	55.68	115	5.340	350	20.89	261
25	51.746	307	31.04	260	64.74	70	65.57	287	62.436	371	54.53	76	5.690	323	23.50	287
35	52.053		33.64		65.44		68.44		62.807		53.77		6.013		26.37	
Mittl. Ort	48.071		19.08		62.90		66.27		57.495		82.69		2.266		15.74	
sec δ, tg δ	1.043		−0.296		3.560		−3.416		1.253		+0.755		1.163		−0.594	
a, a'	+2.9		−18.3		+1.2		−18.3		+3.5		−18.3		+2.8		−18.3	
b, b'	+0.02		−0.41		+0.21		−0.41		−0.05		−0.41		+0.04		−0.41	

Tag	393) *s* Carinae AR.		393) Dekl.		394) 36 Ursae maj. AR.		394) Dekl.		395) 9 H. Draconis AR.		395) Dekl.		404) 33 Sextantis AR.		404) Dekl.	
1932	$10^h 25^m$		−58° 23′		$10^h 26^m$		+56° 19′		$10^h 29^m$		+76° 3′		$10^h 37^m$		−1° 22′	
Jan. 1	23.229	404	13.35	322	19.449	470	35.98	32	27.12	95	36.94	101	57.332	297	59.17	214
11	23.633	340	16.57	352	19.919	415	36.30	82	28.07	83	37.95	155	57.629	265	61.31	201
21	23.973	268	20.09	371	20.334	349	37.12	127	28.90	70	39.50	203	57.894	225	63.32	182
31	24.241	191	23.80	381	20.683	272	38.39	167	29.60	53	41.53	242	58.119	180	65.14	161
Feb. 10	24.432	112	27.61	381	20.955	190	40.06	199	30.13	35	43.95	271	58.299	133	66.75	136
20	24.544	35	31.42	371	21.145	106	42.05	220	30.48	17	46.66	288	58.432	86	68.11	110
29*)	(27) 24.579	37	35.13	355	(27) 21.251	24	44.25	232	(28) 30.65	1	49.54	292	58.518	42	69.21	84
März 10	24.542	103	38.68	330	21.275	52	46.57	233	30.64	19	52.46	284	58.560	1	70.05	61
20	24.439	160	41.98	299	21.223	119	48.90	224	30.45	34	55.30	265	58.561	33	70.66	38
30	24.279	209	44.97	263	21.104	174	51.14	205	30.11	48	57.95	234	58.528	61	71.04	18
Apr. 9	24.070	248	47.60	222	20.930	217	53.19	178	29.63	59	60.29	196	58.467	82	71.22	0
19	23.822	277	49.82	178	20.713	247	54.97	145	29.04	67	62.25	151	58.385	96	71.22	15
29	23.545	298	51.60	131	20.466	264	56.42	106	28.37	72	63.76	99	58.289	103	71.07	28
Mai 9	23.247	310	52.91	81	20.202	268	57.48	64	27.65	74	64.75	46	58.186	106	70.79	40
19	22.937	312	53.72	31	19.934	262	58.12	21	26.91	74	65.21	9	58.080	104	70.39	49
29	22.625	307	54.03	20	19.672	246	58.33	22	26.17	71	65.12	63	57.976	97	69.90	56
Juni 8	22.318	294	53.83	69	19.426	222	58.11	66	25.46	66	64.49	115	57.879	88	69.34	63
18	22.024	273	53.14	116	19.204	191	57.45	107	24.80	59	63.34	165	57.791	76	68.71	66
28	21.751	244	51.98	159	19.013	155	56.38	146	24.21	50	61.69	210	57.715	60	68.05	68
Juli 8	21.507	208	50.39	199	18.858	114	54.92	181	23.71	40	59.59	250	57.655	43	67.37	67
18	21.299	165	48.40	231	18.744	70	53.11	213	23.31	29	57.09	284	57.612	24	66.70	63
28	21.134	114	46.09	256	18.674	23	50.98	240	23.02	18	54.25	313	57.588	3	66.07	57
Aug. 7	21.020	56	43.53	272	18.651	25	48.58	264	22.84	5	51.12	334	57.585	21	65.50	47
17	20.964	5	40.81	279	18.676	76	45.94	282	22.79	7	47.78	350	57.606	48	65.03	34
27	20.969	73	38.02	276	18.752	129	43.12	295	22.86	20	44.28	359	57.654	76	64.69	16
Sept. 6	21.042	143	35.26	262	18.881	184	40.17	304	23.06	33	40.69	360	57.730	108	64.53	4
16	21.185	215	32.64	237	19.065	238	37.13	307	23.39	45	37.09	355	57.838	142	64.57	29
26	21.400	284	30.27	202	19.303	293	34.06	304	23.84	58	33.54	341	57.980	176	64.86	57
Okt. 6	21.684	351	28.25	157	19.596	347	31.02	295	24.42	70	30.13	322	58.156	211	65.43	85
16	22.035	410	26.68	104	19.943	398	28.07	280	25.12	81	26.91	294	58.367	246	66.28	114
26	22.445	459	25.64	46	20.341	444	25.27	258	25.93	90	23.97	259	58.613	277	67.42	142
Nov. 5	22.904	496	25.18	16	20.785	484	22.69	228	26.83	98	21.38	217	58.890	304	68.84	169
15	23.400	519	25.34	81	21.269	514	20.41	192	27.81	105	19.21	168	59.194	325	70.53	191
25	23.919	524	26.15	143	21.783	532	18.49	151	28.86	108	17.53	114	59.519	337	72.44	208
Dez. 5	24.443	513	27.58	201	22.315	534	16.98	105	29.94	108	16.39	56	59.856	339	74.52	219
15	24.956	484	29.59	254	22.849	522	15.93	53	31.02	105	15.83	4	60.195	332	76.71	223
25	25.440	441	32.13	299	23.371	493	15.40	2	32.07	100	15.87	64	60.527	313	78.94	220
35	25.881		35.12		23.864		15.38		33.07		16.51		60.840		81.14	
Mittl. Ort	22.676		30.67		17.330		47.81		22.01		50.98		56.661		61.15	
sec δ, tg δ	1.908		−1.625		1.804		+1.501		4.152		+4.030		1.000		−0.024	
a, *a′*	+2.2		−18.4		+3.9		−18.4		+5.1		−18.5		+3.1		−18.8	
b, *b′*	+0.10		− 0.40		−0.09		− 0.40		−0.25		− 0.39		0.00		− 0.35	

*) Bei Stern 404) lies März 1

Tag	406) ϑ Argus				407) 42 Leonis min.				408) μ Argus				409) l Leonis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	10h 40m		−64° 1′		10h 42m		+31° 1′		10h 43m		−49° 3′		10h 45m		+10° 53′	
Jan. 1	32.00	48	57.78	306	6.456	345	79.91	90	50.666	372	22.79	307	41.854	311	77.40	172
11	32.48	42	60.84	342	6.801	310	79.01	51	51.038	323	25.86	334	42.165	279	75.68	148
21	32.90	33	64.26	368	7.111	266	78.50	12	51.361	267	29.20	350	42.444	240	74.20	121
31	33.23	24	67.94	383	7.377	215	78.38	26	51.628	205	32.70	359	42.684	194	72.99	92
Feb. 10	33.47	15	71.77	389	7.592	161	78.64	60	51.833	141	36.29	357	42.878	147	72.07	62
20	33.62	7	75.66	385	7.753	106	79.24	88	51.974	78	39.86	348	43.025	99	71.45	35
März 1	[2] 33.69	2	79.51	372	[2] 7.859	51	80.12	110	[3] 52.052	18	43.34	330	[3] 43.124	52	71.10	10
10	33.67	10	83.23	353	7.910	3	81.22	126	52.070	36	46.64	308	43.176	11	71.00	13
20	33.57	17	86.76	325	7.913	41	82.48	133	52.034	85	49.72	278	43.187	26	71.13	30
30	33.40	24	90.01	292	7.872	76	83.81	135	51.949	126	52.50	244	43.161	56	71.43	44
Apr. 9	33.16	28	92.93	253	7.796	103	85.16	128	51.823	158	54.94	207	43.105	78	71.87	54
19	32.88	32	95.46	210	7.693	121	86.44	118	51.665	184	57.01	167	43.027	94	72.41	60
29	32.56	35	97.56	163	7.572	133	87.62	101	51.481	203	58.68	123	42.933	103	73.01	62
Mai 9	32.21	38	99.19	113	7.439	137	88.63	81	51.278	214	59.91	78	42.830	107	73.63	61
19	31.83	39	100.32	62	7.302	135	89.44	59	51.064	219	60.69	32	42.723	104	74.24	58
29	31.44	38	100.94	10	7.167	126	90.03	35	50.845	217	61.01	13	42.619	99	74.82	54
Juni 8	31.06	38	101.04	42	7.041	114	90.38	10	50.628	211	60.88	58	42.520	90	75.36	47
18	30.68	36	100.62	92	6.927	98	90.48	16	50.417	198	60.30	101	42.430	78	75.83	39
28	30.32	33	99.70	140	6.829	79	90.32	40	50.219	178	59.29	141	42.352	63	76.22	30
Juli 8	29.99	29	98.30	182	6.750	57	89.92	66	50.041	154	57.88	176	42.289	46	76.52	19
18	29.70	24	96.48	220	6.693	34	89.26	90	49.887	125	56.12	206	42.243	27	76.71	8
28	29.46	18	94.28	250	6.659	8	88.36	113	49.762	88	54.06	229	42.216	5	76.79	6
Aug. 7	29.28	12	91.78	272	6.651	20	87.23	134	49.674	47	51.77	245	42.211	18	76.73	22
17	29.16	4	89.06	285	6.671	51	85.89	156	49.627	1	49.32	251	42.229	44	76.51	39
27	29.12	4	86.21	287	6.722	84	84.33	175	49.626	51	46.81	248	42.273	72	76.12	58
Sept. 6	29.16	13	83.34	278	6.806	118	82.58	193	49.677	106	44.33	235	42.345	104	75.54	79
16	29.29	21	80.56	258	6.924	155	80.65	209	49.783	162	41.98	212	42.449	138	74.75	100
26	29.50	30	77.98	227	7.079	193	78.56	221	49.945	220	39.86	180	42.587	172	73.75	123
Okt. 6	29.80	38	75.71	186	7.272	233	76.35	231	50.165	276	38.06	138	42.759	208	72.52	145
16	30.18	46	73.85	136	7.505	271	74.04	237	50.441	329	36.68	89	42.967	244	71.07	165
26	30.64	52	72.49	79	7.776	306	71.67	237	50.770	374	35.79	35	43.211	276	69.42	184
Nov. 5	31.16	56	71.70	17	8.082	337	69.30	232	51.144	410	35.44	24	43.487	305	67.58	199
15	31.72	60	71.53	48	8.419	362	66.98	221	51.554	435	35.68	83	43.792	327	65.59	208
25	32.32	61	72.01	112	8.781	378	64.77	203	51.989	447	36.51	141	44.119	341	63.51	212
Dez. 5	32.93	60	73.13	174	9.159	383	62.74	178	52.436	444	37.92	196	44.460	347	61.39	210
15	33.53	57	74.87	231	9.542	378	60.96	149	52.880	429	39.88	244	44.807	341	59.29	200
25	34.10	53	77.18	281	9.920	361	59.47	114	53.309	398	42.32	286	45.148	325	57.29	185
35	34.63		79.99		10.281		58.33		53.707		45.18		45.473		55.44	
Mittl. Ort	31.60		76.11		5.360		87.59		50.305		38.25		41.095		79.53	
sec δ, tg δ	2.284		−2.054		1.167		+0.602		1.526		−1.153		1.018		+0.193	
a, a'	+2.1		−18.9		+3.3		−18.9		+2.6		−18.9		+3.2		−19.0	
b, b'	+0.13		− 0.34		−0.04		− 0.33		+0.07		− 0.33		−0.01		− 0.32	

Tag	415) *i* Velorum AR.		Dekl.		416) β Ursae maj. AR.		Dekl.		417) α Ursae maj. AR.		Dekl.		418) χ Leonis AR.		Dekl.	
1932	10ʰ 57ᵐ		−41° 51′		10ʰ 57ᵐ		+56° 44′		10ʰ 59ᵐ		+62° 6′		11ʰ 1ᵐ		+7° 41′	
Jan. 1	2.094	356	25.52	294	46.967	497	36.05	2	35.11	57	51.38	15	31.287	315	72.66	188
11	2.450	315	28.46	316	47.464	452	36.03	52	35.68	51	51.53	71	31.602	285	70.78	167
21	2.765	267	31.62	330	47.916	391	36.55	102	36.19	44	52.24	123	31.887	249	69.11	142
31	3.032	213	34.92	336	48.307	321	37.57	149	36.63	37	53.47	170	32.136	206	67.69	115
Feb. 10	3.245	156	38.28	333	48.628	243	39.06	186	37.00	27	55.17	208	32.342	159	66.54	85
20	3.401	100	41.61	323	48.871	160	40.92	216	37.27	18	57.25	236	32.501	113	65.69	57
März 1	3.501	46	44.84	305	49.031	77	43.08	235	37.45	8	59.61	255	32.614	67	65.12	31
10	6 3.547	4	47.89	282	6 49.108	1	45.43	242	7 37.53	1	62.16	260	7 32.681	26	64.81	7
20	3.543	48	50.71	254	49.107	72	47.85	240	37.52	9	64.76	255	32.707	11	64.74	14
30	3.495	84	53.25	222	49.035	134	50.25	228	37.43	16	67.31	239	32.696	42	64.88	29
Apr. 9	3.411	115	55.47	188	48.901	185	52.53	204	37.27	23	69.70	214	32.654	65	65.17	42
19	3.296	140	57.35	150	48.716	223	54.57	176	37.04	28	71.84	182	32.589	83	65.59	51
29	3.156	156	58.85	111	48.493	248	56.33	139	36.76	31	73.66	142	32.506	94	66.10	57
Mai 9	3.000	168	59.96	70	48.245	263	57.72	99	36.45	32	75.08	98	32.412	101	66.67	59
19	2.832	173	60.66	29	47.982	267	58.71	55	36.13	33	76.06	51	32.311	101	67.26	58
29	2.659	174	60.95	12	47.715	260	59.26	11	35.80	33	76.57	3	32.210	98	67.84	57
Juni 8	2.485	170	60.83	52	47.455	245	59.37	35	35.47	31	76.60	46	32.112	92	68.41	53
18	2.315	161	60.31	91	47.210	222	59.02	78	35.16	28	76.14	92	32.020	83	68.94	48
28	2.154	146	59.40	127	46.988	194	58.24	121	34.88	25	75.22	137	31.937	70	69.42	41
Juli 8	2.008	128	58.13	158	46.794	160	57.03	161	34.63	21	73.85	179	31.867	56	69.83	32
18	1.880	104	56.55	184	46.634	122	55.42	197	34.42	16	72.06	217	31.811	39	70.15	22
28	1.776	76	54.71	206	46.512	79	53.45	230	34.26	11	69.89	251	31.772	20	70.37	9
Aug. 7	1.700	43	52.65	218	46.433	33	51.15	258	34.15	5	67.38	279	31.752	2	70.46	5
17	1.657	4	50.47	224	46.400	16	48.57	281	34.10	0	64.59	303	31.754	27	70.41	22
27	1.653	40	48.23	221	46.416	69	45.76	300	34.10	6	61.56	321	31.781	55	70.19	40
Sept. 6	1.693	86	46.02	208	46.485	123	42.76	315	34.16	13	58.35	333	31.836	86	69.79	61
16	1.779	136	43.94	187	46.608	180	39.61	322	34.29	19	55.02	340	31.922	120	69.18	84
26	1.915	187	42.07	156	46.788	238	36.39	324	34.48	27	51.62	339	32.042	156	68.34	107
Okt. 6	2.102	239	40.51	116	47.026	297	33.15	320	34.75	33	48.23	332	32.198	192	67.27	131
16	2.341	287	39.35	71	47.323	355	29.95	309	35.08	40	44.91	317	32.390	229	65.96	155
26	2.628	330	38.64	20	47.678	408	26.86	289	35.48	46	41.74	295	32.619	264	64.41	176
Nov. 5	2.958	367	38.44	34	48.086	455	23.97	264	35.94	51	38.79	265	32.883	294	62.65	194
15	3.325	393	38.78	90	48.541	495	21.33	230	36.45	56	36.14	228	33.177	319	60.71	207
25	3.718	408	39.68	143	49.036	522	19.03	189	37.01	59	33.86	184	33.496	336	58.64	215
Dez. 5	4.126	411	41.11	193	49.558	536	17.14	142	37.60	61	32.02	134	33.832	344	56.49	216
15	4.537	401	43.04	237	50.094	533	15.72	92	38.21	60	30.68	79	34.176	341	54.33	212
25	4.938	377	45.41	275	50.627	514	14.80	38	38.81	58	29.89	21	34.517	328	52.21	199
35	5.315		48.16		51.141		14.42		39.39		29.68		34.845		50.22	
Mittl. Ort	1.813		39.14		45.081		50.16		32.86		66.40		30.648		74.46	
sec δ, tg δ	1.343		−0.896		1.824		+1.525		2.138		+1.890		1.009		+0.135	
a, *a′*	+2.7		−19.3		+3.6		−19.3		+3.7		−19.4		+3.1		−19.4	
b, *b′*	+0.06		− 0.27		−0.10		− 0.27		−0.12		− 0.26		−0.01		− 0.25	

Tag	420) ψ Ursae maj. AR.	Δ	Dekl.	Δ	421) β Crateris AR.	Δ	Dekl.	Δ
1932	11ʰ 5ᵐ		+44° 51′		11ʰ 8ᵐ		−22° 27′	
Jan. 1	52.224	412	51.45	57	18.996	323	7.38	265
11	52.636	376	50.88	6	19.319	292	10.03	272
21	53.012	329	50.82	41	19.611	253	12.75	271
31	53.341	274	51.23	87	19.864	208	15.46	265
Feb. 10	53.615	212	52.10	126	20.072	161	18.11	252
20	53.827	148	53.36	158	20.233	114	20.63	233
März 1	53.975	83	54.94	182	20.347	68	22.96	212
10	54.058	23	56.76	196	20.415	26	25.08	187
20	54.081	32	58.72	201	20.441	11	26.95	161
30	54.049	79	60.73	197	20.430	42	28.56	133
Apr. 9	53.970	118	62.70	184	20.388	68	29.89	104
19	53.852	147	64.54	164	20.320	88	30.93	76
29	53.705	167	66.18	138	20.232	101	31.69	48
Mai 9	53.538	179	67.56	107	20.131	110	32.17	21
19	53.359	182	68.63	73	20.021	114	32.38	7
29	53.177	178	69.36	37	19.907	115	32.31	34
Juni 8	52.999	168	69.73	1	19.792	111	31.97	58
18	52.831	153	69.72	38	19.681	104	31.39	81
28	52.678	134	69.34	75	19.577	95	30.58	101
Juli 8	52.544	110	68.59	109	19.482	82	29.57	118
18	52.434	84	67.50	143	19.400	65	28.39	132
28	52.350	54	66.07	174	19.335	44	27.07	140
Aug. 7	52.296	21	64.33	202	19.291	20	25.67	143
17	52.275	15	62.31	227	19.271	7	24.24	140
27	52.290	53	60.04	248	19.278	39	22.84	131
Sept. 6	52.343	96	57.56	266	19.317	75	21.53	114
16	52.439	141	54.90	280	19.392	113	20.39	91
26	52.580	187	52.10	289	19.505	154	19.48	63
Okt. 6	52.767	234	49.21	293	19.659	196	18.85	28
16	53.001	282	46.28	290	19.855	237	18.57	11
26	53.283	327	43.38	282	20.092	275	18.68	53
Nov. 5	53.610	368	40.56	266	20.367	308	19.21	95
15	53.978	400	37.90	242	20.675	334	20.16	136
25	54.378	425	35.48	213	21.009	351	21.52	175
Dez. 5	54.803	439	33.35	176	21.360	358	23.27	208
15	55.242	438	31.59	134	21.718	354	25.35	236
25	55.680	424	30.25	87	22.072	338	27.71	256
35	56.104		29.38		22.410		30.27	
Mittl. Ort	50.921		63.84		18.664		15.19	
sec δ, tg δ	1.411		+0.995		1.082		−0.413	
a, a′	+3.4		−19.5		+2.9		−19.5	
b, b′	−0.06		−0.23		+0.03		−0.22	

Tag	422) δ Leonis AR.	Δ	Dekl.	Δ	423) θ Leonis AR.	Δ	Dekl.	Δ
1932	11ʰ 10ᵐ		+20° 53′		11ʰ 10ᵐ		+15° 47′	
Jan. 1	30.469	336	41.18	148	41.123	328	60.76	165
11	30.805	308	39.70	115	41.451	300	59.11	137
21	31.113	270	38.55	80	41.751	263	57.74	105
31	31.383	227	37.75	44	42.014	221	56.69	72
Feb. 10	31.610	179	37.31	10	42.235	174	55.97	40
20	31.789	129	37.21	22	42.409	127	55.57	9
März 1	31.918	81	37.43	49	42.536	79	55.48	18
10	31.999	35	37.92	72	42.615	35	55.66	42
20	32.034	4	38.64	87	42.650	3	56.08	60
30	32.030	39	39.51	98	42.647	36	56.68	73
Apr. 9	31.991	66	40.49	102	42.611	62	57.41	80
19	31.925	87	41.51	101	42.549	81	58.21	83
29	31.838	101	42.52	96	42.468	95	59.04	82
Mai 9	31.737	108	43.48	86	42.373	103	59.86	77
19	31.629	111	44.34	73	42.270	105	60.63	69
29	31.518	109	45.07	58	42.165	103	61.32	60
Juni 8	31.409	103	45.65	42	42.062	97	61.92	47
18	31.306	93	46.07	23	41.965	89	62.39	34
28	31.213	82	46.30	4	41.876	78	62.73	19
Juli 8	31.131	66	46.34	15	41.798	63	62.92	4
18	31.065	49	46.19	36	41.735	47	62.96	13
28	31.016	29	45.83	56	41.688	28	62.83	31
Aug. 7	30.987	6	45.27	77	41.660	5	62.52	49
17	30.981	19	44.50	98	41.655	19	62.03	69
27	31.000	48	43.52	119	41.674	47	61.34	89
Sept. 6	31.048	81	42.33	140	41.721	79	60.45	110
16	31.129	116	40.93	161	41.800	113	59.35	132
26	31.245	153	39.32	181	41.913	150	58.03	153
Okt. 6	31.398	191	37.51	198	42.063	188	56.50	174
16	31.589	231	35.53	213	42.251	225	54.76	192
26	31.820	267	33.40	224	42.476	262	52.84	206
Nov. 5	32.087	301	31.16	231	42.738	295	50.78	218
15	32.388	329	28.85	231	43.033	323	48.60	223
25	32.717	349	26.54	224	43.356	341	46.37	223
Dez. 5	33.066	359	24.30	211	43.697	351	44.14	215
15	33.425	359	22.19	192	44.048	351	41.99	201
25	33.784	348	20.27	167	44.399	340	39.98	181
35	34.132		18.60		44.739		38.17	
Mittl. Ort	29.710		47.51		40.436		65.53	
sec δ, tg δ	1.070		+0.382		1.039		+0.283	
a, a′	+3.2		−19.6		+3.2		−19.6	
b, b′	−0.02		−0.21		−0.02		−0.21	

Tag	425) ν Ursae maj. AR.		425) Dekl.		426) δ Crateris AR.		426) Dekl.		427) σ Leonis AR.		427) Dekl.		428) π Centauri AR.		428) Dekl.	
1932	11h 14m		+33° 27′		11h 15m		−14° 24′		11h 17m		+6° 23′		11h 17m		−54° 6′	
Jan. 1	49.634	367	45.90	106	56.696	320	32.23	247	38.402	321	66.17	197	53.941	438	49.11	277
11	50.001	338	44.84	64	57.016	292	34.70	247	38.723	295	64.20	177	54.379	393	51.88	312
21	50.339	299	44.20	20	57.308	255	37.17	241	39.018	260	62.43	152	54.772	337	55.00	338
31	50.638	251	44.00	22	57.563	213	39.58	228	39.278	219	60.91	125	55.109	275	58.38	354
Feb. 10	50.889	199	44.22	61	57.776	168	41.86	210	39.497	175	59.66	96	55.384	208	61.92	362
20	51.088	144	44.83	95	57.944	123	43.96	189	39.672	129	58.70	67	55.592	141	65.54	361
März 1	51.232	90	45.78	122	58.067	78	45.85	166	39.801	84	58.03	40	55.733	76	69.15	351
11	51.322	38	47.00	142	58.145	37	47.51	141	39.885	42	57.63	15	55.809	14	72.66	335
20	51.360	8	48.42	153	58.182	0	48.92	115	39.927	5	57.48	6	55.823	41	76.01	312
30	51.352	48	49.95	157	58.182	30	50.07	91	39.932	26	57.54	24	55.782	91	79.13	283
Apr. 9	51.304	81	51.52	153	58.152	55	50.98	66	39.906	52	57.78	38	55.691	134	81.96	250
19	51.223	105	53.05	144	58.097	75	51.64	42	39.854	71	58.16	48	55.557	170	84.46	212
29	51.118	122	54.49	127	58.022	88	52.06	19	39.783	84	58.64	55	55.387	199	86.58	171
Mai 9	50.996	133	55.76	106	57.934	97	52.25	2	39.699	93	59.19	59	55.188	220	88.29	127
19	50.863	137	56.82	82	57.837	102	52.23	22	39.606	97	59.78	60	54.968	236	89.56	81
29	50.726	135	57.64	56	57.735	103	52.01	41	39.509	96	60.38	59	54.732	244	90.37	34
Juni 8	50.591	129	58.20	27	57.632	100	51.60	59	39.413	92	60.97	56	54.488	246	90.71	13
18	50.462	118	58.47	2	57.532	94	51.01	74	39.321	86	61.53	52	54.242	241	90.58	59
28	50.344	105	58.45	32	57.438	86	50.27	87	39.235	77	62.05	45	54.001	230	89.99	104
Juli 8	50.239	87	58.13	61	57.352	74	49.40	97	39.158	64	62.50	37	53.771	211	88.95	145
18	50.152	68	57.52	89	57.278	59	48.43	105	39.094	50	62.87	27	53.560	185	87.50	181
28	50.084	44	56.63	116	57.219	41	47.38	107	39.044	32	63.14	15	53.375	151	85.69	212
Aug. 7	50.040	18	55.47	142	57.178	20	46.31	106	39.012	12	63.29	1	53.224	109	83.57	235
17	50.022	10	54.05	167	57.158	5	45.25	99	39.000	12	63.30	15	53.115	61	81.22	251
27	50.032	43	52.38	190	57.163	35	44.26	88	39.012	39	63.15	33	53.054	5	78.71	257
Sept. 6	50.075	79	50.48	210	57.198	68	43.38	70	39.051	70	62.82	55	53.049	56	76.14	253
16	50.154	117	48.38	228	57.266	105	42.68	47	39.121	103	62.27	77	53.105	121	73.61	238
26	50.271	157	46.10	244	57.371	143	42.21	20	39.224	140	61.50	101	53.226	189	71.23	213
Okt. 6	50.428	201	43.66	255	57.514	183	42.01	13	39.364	178	60.49	125	53.415	257	69.10	179
16	50.629	242	41.11	261	57.697	223	42.14	47	39.542	216	59.24	150	53.672	320	67.31	135
26	50.871	283	38.50	262	57.920	260	42.61	84	39.758	252	57.74	173	53.992	378	65.96	85
Nov. 5	51.154	321	35.88	258	58.180	294	43.45	120	40.010	285	56.01	192	54.370	427	65.11	28
15	51.475	352	33.30	246	58.474	320	44.65	154	40.295	313	54.09	207	54.797	464	64.83	32
25	51.827	375	30.84	227	58.794	339	46.19	186	40.608	333	52.02	217	55.261	487	65.15	91
Dez. 5	52.202	388	28.57	202	59.133	348	48.05	211	40.941	343	49.85	220	55.748	495	66.06	149
15	52.590	389	26.55	169	59.481	346	50.16	231	41.284	343	47.65	217	56.243	486	67.55	203
25	52.979	379	24.86	132	59.827	333	52.47	243	41.627	333	45.48	206	56.729	461	69.58	251
35	53.358		23.54		60.160		54.90		41.960		43.42		57.190		72.09	
Mittl. Ort	48.683		56.03		56.347		37.22		37.866		68.20		53.935		65.38	
sec δ, tg δ	1.199		+0.661		1.032		−0.257		1.006		+0.112		1.706		−1.382	
a, *a′*	+3.2		−19.7		+3.0		−19.7		+3.1		−19.7		+2.7		−19.7	
b, *b′*	−0.04		−0.20		+0.02		−0.19		−0.01		−0.18		+0.09		−0.18	

Tag	429) Grb 1771				433) λ Draconis				434) ξ Hydrae				436) λ Centauri			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
1932	11h 18m		+64° 41′		11h 27m		+69° 41′		11h 29m		−31° 28′		11h 32m		−62° 38′	
Jan. 1	52.15	62	53.95	1	26.05	75	65.89	3	39.298	351	42.25	265	37.79	55	18.73	254
11	52.77	57	53.94	59	26.80	69	65.92	66	39.649	320	44.90	282	38.34	49	21.27	298
21	53.34	51	54.53	114	27.49	61	66.58	123	39.969	282	47.72	291	38.83	42	24.25	331
31	53.85	42	55.67	165	28.10	52	67.81	174	40.251	237	50.63	294	39.25	35	27.56	356
Feb. 10	54.27	33	57.32	207	28.62	41	69.55	219	40.488	190	53.57	288	39.60	28	31.12	370
20	54.60	23	59.39	239	29.03	29	71.74	252	40.678	141	56.45	276	39.88	19	34.82	377
März 1	54.83	13	61.78	261	29.32	16	74.26	274	40.819	92	59.21	259	40.07	11	38.59	373
11	54.96	2	64.39	271	29.48	4	77.00	284	40.911	48	61.80	238	40.18	3	42.32	363
20	54.98	7	67.10	269	29.52	8	79.84	283	40.959	8	64.18	213	40.21	3	45.95	345
30	54.91	15	69.79	256	29.44	18	82.67	268	40.967	28	66.31	186	40.18	10	49.40	320
Apr. 9	54.76	22	72.35	234	29.26	28	85.35	245	40.939	57	68.17	156	40.08	16	52.60	289
19	54.54	29	74.69	201	28.98	36	87.80	212	40.882	81	69.73	126	39.92	21	55.49	253
29	54.25	33	76.70	163	28.62	41	89.92	171	40.801	100	70.99	93	39.71	25	58.02	213
Mai 9	53.92	35	78.33	119	28.21	46	91.63	125	40.701	114	71.92	61	39.46	29	60.15	169
19	53.57	37	79.52	71	27.75	48	92.88	76	40.587	124	72.53	28	39.17	32	61.84	121
29	53.20	37	80.23	22	27.27	48	93.64	23	40.463	128	72.81	5	38.85	33	63.05	71
Juni 8	52.83	36	80.45	29	26.79	48	93.87	29	40.335	130	72.76	36	38.52	34	63.76	21
18	52.47	34	80.16	78	26.31	45	93.58	81	40.205	128	72.40	67	38.18	34	63.97	29
28	52.13	31	79.38	126	25.86	42	92.77	131	40.077	121	71.73	95	37.84	33	63.68	79
Juli 8	51.82	27	78.12	170	25.44	37	91.46	178	39.956	110	70.78	120	37.51	31	62.89	126
18	51.55	22	76.42	211	25.07	32	89.68	221	39.846	96	69.58	142	37.20	28	61.63	168
28	51.33	17	74.31	249	24.75	25	87.47	260	39.750	77	68.16	158	36.92	24	59.95	206
Aug. 7	51.16	11	71.82	280	24.50	18	84.87	293	39.673	53	66.58	169	36.68	19	57.89	236
17	51.05	5	69.02	307	24.32	11	81.94	320	39.620	23	64.89	173	36.49	13	55.53	259
27	51.00	1	65.95	328	24.21	2	78.74	343	39.597	11	63.16	170	36.36	6	52.94	272
Sept. 6	51.01	8	62.67	344	24.19	6	75.31	357	39.608	50	61.46	160	36.30	2	50.22	275
16	51.09	16	59.23	352	24.25	15	71.74	366	39.658	92	59.86	141	36.32	11	47.47	266
26	51.25	24	55.71	354	24.40	25	68.08	368	39.750	138	58.45	115	36.43	20	44.81	248
Okt. 6	51.49	31	52.17	348	24.65	34	64.40	361	39.888	186	57.30	82	36.63	28	42.33	217
16	51.80	38	48.69	336	24.99	43	60.79	346	40.074	232	56.48	43	36.91	37	40.16	177
26	52.18	46	45.33	315	25.42	52	57.33	324	40.306	276	56.05	1	37.28	44	38.39	128
Nov. 5	52.64	52	42.18	285	25.94	60	54.09	293	40.582	314	56.06	48	37.72	50	37.11	73
15	53.16	58	39.33	249	26.54	67	51.16	254	40.896	346	56.54	95	38.22	56	36.38	13
25	53.74	62	36.84	204	27.21	72	48.62	208	41.242	368	57.49	140	38.78	59	36.25	49
Dez. 5	54.36	64	34.80	153	27.93	76	46.54	154	41.610	378	58.89	182	39.37	60	36.74	112
15	55.00	65	33.27	97	28.69	77	45.00	96	41.988	378	60.71	219	39.97	59	37.86	170
25	55.65	64	32.30	38	29.46	76	44.04	35	42.366	364	62.90	250	40.56	57	39.56	225
35	56.29		31.92		30.22		43.69		42.730		65.40		41.13		41.81	
Mittl. Ort	49.89		70.56		23.36		83.58		39.178		52.35		38.08		36.48	
sec δ, tg δ	2.340		+2.116		2.883		+2.704		1.173		−0.612		2.176		−1.933	
a, *a′*	+3.6		−19.7		+3.6		−19.8		+3.0		−19.9		+2.8		−19.9	
b, *b′*	−0.14		− 0.18		−0.18		− 0.14		+0.04		− 0.13		+0.13		− 0.12	

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Tag	437) υ Leonis				440) 3 Draconis				441) χ Ursae maj.				444) β Leonis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	11h 33m		−0° 26′		11h 38m		+67° 6′		11h 42m		+48° 8′		11h 45m		+14° 56′	
Jan. 1	28.392	325	53.98	217	44.05	68	59.07	19	29.175	444	68.07	84	36.044	339	62.05	183
11	28.717	301	56.15	203	44.73	64	58.88	43	29.619	417	67.23	29	36.383	316	60.22	155
21	29.018	268	58.18	185	45.37	57	59.31	102	30.036	376	66.94	25	36.699	286	58.67	123
31	29.286	229	60.03	163	45.94	50	60.33	155	30.412	325	67.19	75	36.985	247	57.44	89
Feb. 10	29.515	187	61.66	137	46.44	39	61.88	202	30.737	266	67.94	122	37.232	205	56.55	54
20	29.702	143	63.03	110	46.83	29	63.90	239	31.003	202	69.16	161	37.437	159	56.01	21
März 1	29.845	99	64.13	83	47.12	18	66.29	264	31.205	136	70.77	191	37.596	114	55.80	10
11	[16] 29.944	58	64.96	58	[17] 47.30	7	68.93	278	[18] 31.341	71	72.68	213	[19] 37.710	70	55.90	36
20	30.002	21	65.54	34	47.37	4	71.71	280	31.412	11	74.81	223	37.780	31	56.26	57
30	30.023	11	65.88	13	47.33	13	74.51	271	31.423	43	77.04	224	37.811	3	56.83	74
Apr. 9	30.012	37	66.01	5	47.20	22	77.22	251	31.380	90	79.28	216	37.808	33	57.57	85
19	29.975	57	65.96	20	46.98	29	79.73	221	31.290	128	81.44	198	37.775	56	58.42	90
29	29.918	73	65.76	32	46.69	35	81.94	184	31.162	157	83.42	174	37.719	74	59.32	91
Mai 9	29.845	84	65.44	42	46.34	38	83.78	140	31.005	179	85.16	143	37.645	87	60.23	88
19	29.761	89	65.02	49	45.96	41	85.18	92	30.826	191	86.59	108	37.558	95	61.11	81
29	29.672	92	64.53	54	45.55	42	86.10	43	30.635	197	87.67	69	37.463	99	61.92	71
Juni 8	29.580	92	63.99	58	45.13	42	86.53	10	30.438	196	88.36	29	37.364	100	62.63	60
18	29.488	88	63.41	60	44.71	40	86.43	61	30.242	188	88.65	12	37.264	97	63.23	46
28	29.400	82	62.81	59	44.31	37	85.82	111	30.054	175	88.53	54	37.167	91	63.69	30
Juli 8	29.318	73	62.22	57	43.94	34	84.71	158	29.879	159	87.99	94	37.076	82	63.99	14
18	29.245	60	61.65	53	43.60	30	83.13	202	29.720	136	87.05	133	36.994	71	64.13	4
28	29.185	45	61.12	45	43.30	24	81.11	243	29.584	110	85.72	169	36.923	56	64.09	22
Aug. 7	29.140	27	60.67	35	43.06	18	78.68	277	29.474	79	84.03	202	36.867	38	63.87	42
17	29.113	4	60.32	22	42.88	12	75.91	308	29.395	44	82.01	232	36.829	16	63.45	62
27	29.109	23	60.10	6	42.76	5	72.83	332	29.351	6	79.69	259	36.813	10	62.83	84
Sept. 6	29.132	53	60.04	14	42.71	3	69.51	350	29.345	38	77.10	282	36.823	41	61.99	107
16	29.185	87	60.18	36	42.74	11	66.01	361	29.383	85	74.28	300	36.864	75	60.92	130
26	29.272	124	60.54	61	42.85	20	62.40	367	29.468	136	71.28	312	36.939	111	59.62	152
Okt. 6	29.396	163	61.15	89	43.05	28	58.73	363	29.604	189	68.16	320	37.050	152	58.10	174
16	29.559	203	62.04	116	43.33	36	55.10	352	29.793	242	64.96	320	37.202	193	56.36	194
26	29.762	241	63.20	143	43.69	45	51.58	333	30.035	295	61.76	314	37.395	233	54.42	211
Nov. 5	30.003	276	64.63	169	44.14	53	48.25	306	30.330	344	58.62	299	37.628	270	52.31	225
15	30.279	305	66.32	190	44.67	59	45.19	269	30.674	388	55.63	277	37.898	303	50.06	232
25	30.584	328	68.22	208	45.26	64	42.50	226	31.062	421	52.86	248	38.201	328	47.74	234
Dez. 5	30.912	340	70.30	219	45.90	68	40.24	174	31.483	445	50.38	210	38.529	344	45.40	229
15	31.252	343	72.49	224	46.58	70	38.50	118	31.928	456	48.28	165	38.873	351	43.11	217
25	31.595	335	74.73	221	47.28	69	37.32	57	32.384	451	46.63	116	39.224	345	40.94	198
35	31.930		76.94		47.97		36.75		32.835		45.47		39.569		38.96	
Mittl. Ort	28.016		53.66		41.83		77.16		28.053		83.24		35.570		68.09	
sec δ, tg δ	1.000		−0.008		2.572		+2.370		1.499		+1.117		1.035		+0.267	
a, *a′*	+3.1		−19.9		+3.4		−20.0		+3.2		−20.0		+3.1		−20.0	
b, *b′*	0.00		− 0.12		−0.16		− 0.09		−0.07		− 0.08		−0.02		− 0.06	

Tag	445) β Virginis				447) γ Ursae maj.				450) o Virginis				452) δ Centauri			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1932	11h 47m		+2° 8′		11h 50m		+54° 3′		12h 1m		+9° 6′		12h 4m		−50° 20′	
Jan. 1	9.512	331	50.83	213	17.040	492	65.23	74	45.068	338	33.16	201	49.121	450	23.03	233
11	9.843	310	48.70	198	17.532	465	64.49	16	45.406	319	31.15	179	49.571	420	25.36	269
21	10.153	280	46.72	177	17.997	422	64.33	41	45.725	290	29.36	152	49.991	379	28.05	299
31	10.433	242	44.95	152	18.419	368	64.74	95	46.015	255	27.84	121	50.370	330	31.04	320
Feb. 10	10.675	201	43.43	125	18.787	303	65.69	142	46.270	215	26.63	90	50.700	274	34.24	332
20	10.876	158	42.18	97	19.090	232	67.11	184	46.485	171	25.73	57	50.974	216	37.56	336
März 1	11.034	114	41.21	69	19.322	159	68.95	215	46.656	129	25.16	27	51.190	158	40.92	333
11	11.148	73	40.52	43	19.481	86	71.10	235	46.785	87	24.89	1	51.348	102	44.25	322
20*)	19 11.221	37	40.09	19	20 19.567	15	73.45	247	23 46.872	49	24.90	24	23 51.450	48	47.47	306
30	11.258	4	39.90	1	19.582	47	75.92	246	46.921	15	25.14	44	51.498	0	50.53	285
Apr. 9	11.262	24	39.91	19	19.535	102	78.38	236	46.936	15	25.58	58	51.498	44	53.38	258
19	11.238	46	40.10	32	19.433	148	80.74	215	46.921	39	26.16	68	51.454	82	55.96	227
29	11.192	63	40.42	43	19.285	186	82.89	187	46.882	58	26.84	74	51.372	116	58.23	192
Mai 9	11.129	76	40.85	50	19.099	212	84.76	154	46.824	72	27.58	76	51.256	146	60.15	155
19	11.053	84	41.35	54	18.887	229	86.30	114	46.752	83	28.34	75	51.110	168	61.70	115
29	10.969	88	41.89	58	18.658	238	87.44	73	46.669	90	29.09	70	50.942	186	62.85	73
Juni 8	10.881	90	42.47	58	18.420	239	88.17	28	46.579	93	29.79	64	50.756	200	63.58	29
18	10.791	88	43.05	57	18.181	232	88.45	18	46.486	94	30.43	56	50.556	207	63.87	14
28	10.703	84	43.62	53	17.949	219	88.27	62	46.392	91	30.99	45	50.349	208	63.73	56
Juli 8	10.619	77	44.15	49	17.730	200	87.65	106	46.301	86	31.44	33	50.141	203	63.17	97
18	10.542	66	44.64	42	17.530	177	86.59	148	46.215	77	31.77	20	49.938	191	62.20	135
28	10.476	53	45.06	32	17.353	147	85.11	187	46.138	64	31.97	5	49.747	170	60.85	168
Aug. 7	10.423	36	45.38	21	17.206	112	83.24	223	46.074	49	32.02	11	49.577	142	59.17	196
17	10.387	14	45.59	6	17.094	73	81.01	255	46.025	29	31.91	30	49.435	105	57.21	216
27	10.373	11	45.65	11	17.021	29	78.46	282	45.996	5	31.61	50	49.330	60	55.05	229
Sept. 6	10.384	41	45.54	30	16.992	20	75.64	305	45.991	25	31.11	71	49.270	9	52.76	233
16	10.425	75	45.24	53	17.012	74	72.59	323	46.016	57	30.40	94	49.261	50	50.43	226
26	10.500	112	44.71	78	17.086	131	69.36	335	46.073	95	29.46	119	49.311	114	48.17	211
Okt. 6	10.612	151	43.93	103	17.217	191	66.01	340	46.168	136	28.27	142	49.425	180	46.06	186
16	10.763	192	42.90	130	17.408	251	62.61	338	46.304	177	26.85	166	49.605	245	44.20	151
26	10.955	231	41.60	156	17.659	311	59.23	330	46.481	217	25.19	187	49.850	307	42.69	108
Nov. 5	11.186	269	40.04	179	17.970	367	55.93	312	46.698	257	23.32	205	50.157	363	41.61	59
15	11.455	300	38.25	198	18.337	416	52.81	286	46.955	291	21.27	219	50.520	411	41.02	6
25	11.755	324	36.27	213	18.753	457	49.95	252	47.246	318	19.08	227	50.931	445	40.96	49
Dez. 5	12.079	340	34.14	222	19.210	486	47.43	211	47.564	337	16.81	229	51.376	467	41.45	105
15	12.419	345	31.92	224	19.696	499	45.32	162	47.901	345	14.52	224	51.843	473	42.50	157
25	12.764	340	29.68	220	20.195	498	43.70	108	48.246	343	12.28	212	52.316	464	44.07	205
35	13.104		27.48		20.693		42.62		48.589		10.16		52.780		46.12	
Mittl. Ort	9.188		52.57		15.779		82.00		44.758		37.89		49.510		37.45	
sec δ, tg δ	1.001		+0.038		1.704		+1.380		1.013		+0.160		1.567		−1.206	
a, a′	+3.1		−20.0		+3.2		−20.0		+3.1		−20.0		+3.1		−20.0	
b, b′	0.00		− 0.06		−0.09		− 0.04		−0.01		+ 0.01		+0.08		+ 0.02	

*) Bei Stern 450) und 452) lies März 21

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Tag	453) ε Corvi AR.		Dekl.		454) 4 H. Draconis AR.		Dekl.		456) δ Ursae maj. AR.		Dekl.		459) β Chamael. AR.		Dekl.	
1932	12h 6m		−22° 14′		12h 9m		+77° 58′		12h 12m		+57° 23′		12h 14m		−78° 55′	
Jan. 1	37.400	350	23.76	238	5.61	118	78.02	30	5.372	529	78.56	89	16.82	124	46.00	175
11	37.750	330	26.14	249	6.79	114	77.72	36	5.901	507	77.67	30	18.06	115	47.75	230
21	38.080	299	28.63	254	7.93	105	78.08	99	6.408	470	77.37	30	19.21	104	50.05	278
31	38.379	263	31.17	250	8.98	93	79.07	158	6.878	417	77.67	88	20.25	91	52.83	318
Feb. 10	38.642	222	33.67	241	9.91	77	80.65	208	7.295	352	78.55	139	21.16	75	56.01	350
20	38.864	178	36.08	227	10.68	60	82.73	250	7.647	280	79.94	185	21.91	58	59.51	372
März 1	39.042	135	38.35	208	11.28	40	85.23	280	7.927	203	81.79	221	22.49	41	63.23	385
11	39.177	94	40.43	188	11.68	20	88.03	298	8.130	125	84.00	245	22.90	24	67.08	390
21	39.271	55	42.31	165	11.88	0	91.01	303	8.255	48	86.45	260	23.14	7	70.98	387
30	39.326	21	43.96	141	11.88	19	94.04	296	8.303	23	89.05	262	23.21	10	74.85	375
Apr. 9	39.347	10	45.37	117	11.69	36	97.00	277	8.280	87	91.67	255	23.11	26	78.60	355
19	39.337	35	46.54	92	11.33	52	99.77	249	8.193	142	94.22	237	22.85	41	82.15	329
29	39.302	55	47.46	67	10.81	65	102.26	210	8.051	187	96.59	210	22.44	54	85.44	296
Mai 9	39.247	73	48.13	42	10.16	75	104.36	167	7.864	223	98.69	177	21.90	66	88.40	257
19	39.174	87	48.55	18	9.41	83	106.03	116	7.641	248	100.46	137	21.24	76	90.97	212
29	39.087	96	48.73	5	8.58	88	107.19	63	7.393	265	101.83	94	20.48	85	93.09	164
Juni 8	38.991	103	48.68	28	7.70	90	107.82	7	7.128	273	102.77	48	19.63	91	94.73	112
18	38.888	107	48.40	50	6.80	89	107.89	48	6.855	272	103.25	0	18.72	95	95.85	58
28	38.781	107	47.90	70	5.91	86	107.41	102	6.583	264	103.25	48	17.77	96	96.43	2
Juli 8	38.674	104	47.20	87	5.05	81	106.39	154	6.319	249	102.77	94	16.81	94	96.45	53
18	38.570	96	46.33	102	4.24	74	104.85	203	6.070	228	101.83	139	15.87	90	95.92	106
28	38.474	84	45.31	113	3.50	66	102.82	247	5.842	200	100.44	182	14.97	82	94.86	157
Aug. 7	38.390	68	44.18	120	2.84	55	100.35	286	5.642	165	98.62	221	14.15	72	93.29	201
17	38.322	46	42.98	122	2.29	43	97.49	320	5.477	126	96.41	257	13.43	58	91.28	240
27	38.276	18	41.76	118	1.86	31	94.29	348	5.351	79	93.84	287	12.85	41	88.88	268
Sept. 6	38.258	16	40.58	108	1.55	16	90.81	369	5.272	28	90.97	313	12.44	23	86.20	289
16	38.274	53	39.50	92	1.39	2	87.12	382	5.244	30	87.84	333	12.21	3	83.31	298
26	38.327	95	38.58	70	1.37	14	83.30	388	5.274	91	84.51	348	12.18	18	80.33	295
Okt. 6	38.422	140	37.88	41	1.51	30	79.42	386	5.365	157	81.03	356	12.36	40	77.38	280
16	38.562	186	37.47	9	1.81	46	75.56	376	5.522	224	77.47	356	12.76	60	74.58	254
26	38.748	231	37.38	28	2.27	62	71.80	357	5.746	291	73.91	348	13.36	80	72.04	216
Nov. 5	38.979	273	37.66	66	2.89	77	68.23	328	6.037	356	70.43	331	14.16	98	69.88	169
15	39.252	308	38.32	105	3.66	91	64.95	291	6.393	414	67.12	306	15.14	111	68.19	113
25	39.560	337	39.37	142	4.57	102	62.04	246	6.807	464	64.06	273	16.25	122	67.06	53
Dez. 5	39.897	355	40.79	176	5.59	111	59.58	193	7.271	501	61.33	231	17.47	128	66.53	11
15	40.252	362	42.55	205	6.70	116	57.65	133	7.772	524	59.02	181	18.75	130	66.64	75
25	40.614	359	44.60	227	7.86	118	56.32	70	8.296	530	57.21	126	20.05	128	67.39	137
35	40.973		46.87		9.04		55.62		8.826		55.95		21.33		68.76	
Mittl. Ort	37.432		29.81		2.15		98.60		4.204		96.99		19.07		65.04	
sec δ, tg δ	1.080		−0.409		4.807		+4.702		1.857		+1.564		5.210		−5.114	
a, a'	+3.1		−20.0		+2.8		−20.0		+3.0		−20.0		+3.5		−20.0	
b, b'	+0.03		+ 0.03		−0.31		+ 0.04		−0.10		+0.05		+0.34		+ 0.06	

Tag	460) η Virginis AR.	Δ	Dekl.	Δ	462) α Crucis med. AR.	Δ	Dekl.	Δ	466) 20 Comae AR.	Δ	Dekl.	Δ	465) δ Corvi AR.	Δ	Dekl.	Δ
1932	12h 16m		−0° 17′		12h 22m		−62° 43′		12h 26m		+21° 15′		12h 26m		−16° 8′	
	s		″		s		″		s		″		s		″	
Jan. 1	25.700	337	22.57	218	47.45	60	5.70	195	18.718	356	70.90	188	20.483	348	10.12	228
11	26.037	320	24.75	206	48.05	56	7.65	243	19.074	341	69.02	154	20.831	331	12.40	233
21	26.357	295	26.81	188	48.61	51	10.08	283	19.415	317	67.48	116	21.162	306	14.73	232
31	26.652	261	28.69	165	49.12	45	12.91	315	19.732	285	66.32	76	21.468	273	17.05	224
Feb. 10	26.913	224	30.34	140	49.57	38	16.06	339	20.017	245	65.56	35	21.741	235	19.29	211
20	27.137	183	31.74	112	49.95	31	19.45	353	20.262	203	65.21	5	21.976	195	21.40	195
März 1	27.320	142	32.86	84	50.26	24	22.98	361	20.465	159	65.26	40	22.171	154	23.35	174
11	27.462	102	33.70	57	50.50	16	26.59	359	20.624	115	65.66	72	22.325	114	25.09	152
21	27.564	65	34.27	33	50.66	8	30.18	350	20.739	73	66.38	96	22.439	76	26.61	129
30	[26] 27.629	31	34.60	11	[28] 50.74	2	33.68	335	[29] 20.812	35	67.34	114	[20] 22.515	43	27.90	107
Apr. 9	27.660	2	34.71	8	50.76	5	37.03	313	20.847	2	68.48	126	22.558	12	28.97	84
19	27.662	22	34.63	23	50.71	10	40.16	285	20.849	27	69.74	131	22.570	13	29.81	61
29	27.640	43	34.40	36	50.61	16	43.01	252	20.822	51	71.05	130	22.557	36	30.42	41
Mai 9	27.597	59	34.04	45	50.45	21	45.53	215	20.771	71	72.35	123	22.521	54	30.83	22
19	27.538	72	33.59	52	50.24	24	47.68	172	20.700	85	73.58	112	22.467	69	31.05	2
29	27.466	81	33.07	56	50.00	28	49.40	128	20.615	96	74.70	97	22.398	82	31.07	15
Juni 8	27.385	87	32.51	58	49.72	31	50.68	80	20.519	103	75.67	79	22.316	91	30.92	31
18	27.298	90	31.93	59	49.41	33	51.48	31	20.416	108	76.46	58	22.225	97	30.61	47
28	27.208	91	31.34	57	49.08	33	51.79	18	20.308	108	77.04	37	22.128	100	30.14	61
Juli 8	27.117	89	30.77	54	48.75	33	51.61	67	20.200	105	77.41	13	22.028	100	29.53	72
18	27.028	82	30.23	48	48.42	32	50.94	114	20.095	99	77.54	12	21.928	96	28.81	81
28	26.946	73	29.75	41	48.10	30	49.80	156	19.996	89	77.42	37	21.832	88	28.00	88
Aug. 7	26.873	60	29.34	31	47.80	26	48.24	194	19.907	75	77.05	63	21.744	75	27.12	91
17	26.813	41	29.03	18	47.54	20	46.30	225	19.832	56	76.42	88	21.669	57	26.21	89
27	26.772	18	28.85	2	47.34	1	44.05	248	19.776	33	75.54	114	21.612	32	25.32	84
Sept. 6	26.754	10	28.83	16	47.20	8	41.57	262	19.743	3	74.40	140	21.580	2	24.48	72
16	26.764	44	28.99	37	47.12	1	38.95	266	19.740	30	73.00	164	21.578	33	23.76	56
26	26.808	81	29.36	61	47.13	10	36.29	258	19.770	68	71.36	188	21.611	74	23.20	34
Okt. 6	26.889	122	29.97	87	47.23	19	33.71	240	19.838	110	69.48	210	21.685	116	22.86	9
16	27.011	164	30.84	114	47.42	28	31.31	211	19.948	154	67.38	229	21.801	162	22.77	20
26	27.175	206	31.98	141	47.70	37	29.20	173	20.102	199	65.09	245	21.963	207	22.97	53
Nov. 5	27.381	247	33.39	165	48.07	45	27.47	125	20.301	243	62.64	255	22.170	251	23.50	88
15	27.628	282	35.04	188	48.52	52	26.22	71	20.544	281	60.09	260	22.421	288	24.38	121
25	27.910	312	36.92	205	49.04	57	25.51	14	20.825	315	57.49	258	22.709	319	25.59	153
Dez. 5	28.222	332	38.97	217	49.61	60	25.37	46	21.140	339	54.91	248	23.028	341	27.12	181
15	28.554	342	41.14	223	50.21	62	25.83	106	21.479	354	52.43	231	23.369	352	28.93	204
25	28.896	342	43.37	222	50.83	61	26.89	162	21.833	358	50.12	206	23.721	353	30.97	220
35	29.238		45.59		51.44		28.51		22.191		48.06		24.074		33.17	
Mittl. Ort	25.572		20.58		48.37		22.23		18.421		80.68		20.574		13.38	
sec δ, tg δ	1.000		−0.005		2.182		−1.939		1.073		+0.389		1.041		−0.289	
a, *a′*	+3.1		−20.0		+3.3		−19.9		+3.0		−19.9		+3.1		−19.9	
b, *b′*	0.00		+0.07		+0.13		+0.10		−0.03		+0.11		+0.02		+0.11	

Scheinbare Sternörter 1932

Tag	470) 8 Canum ven. AR.		470) Dekl.		472) κ Draconis AR.		472) Dekl.	
1932	12h 30m		+41° 42′		12h 30m		+70° 9′	
Jan. 1	31.652	413	80.04	149	37.13	77	25.26	80
11	32.065	399	78.55	98	37.90	75	24.46	15
21	32.464	373	77.57	44	38.65	70	24.31	49
31	32.837	336	77.13	10	39.35	64	24.80	111
Feb. 10	33.173	291	77.23	61	39.99	54	25.91	167
20	33.464	239	77.84	107	40.53	44	27.58	215
März 1	33.703	185	78.91	147	40.97	33	29.73	252
11	33.888	129	80.38	179	41.30	21	32.25	278
21	34.017	76	82.17	201	41.51	8	35.03	292
30	34.093	26	84.18	214	41.59	3	37.95	294
Apr. 9	34.119	20	86.32	217	41.56	14	40.89	284
19	34.099	58	88.49	212	41.42	24	43.73	263
29	34.041	92	90.61	197	41.18	33	46.36	234
Mai 9	33.949	118	92.58	177	40.85	39	48.70	196
19	33.831	139	94.35	150	40.46	44	50.66	151
29	33.692	154	95.85	118	40.02	48	52.17	103
Juni 8	33.538	163	97.03	83	39.54	51	53.20	51
18	33.375	168	97.86	45	39.03	51	53.71	2
28	33.207	167	98.31	7	38.52	50	53.69	56
Juli 8	33.040	162	98.38	33	38.02	49	53.13	107
18	32.878	153	98.05	72	37.53	45	52.06	158
28	32.725	138	97.33	110	37.08	41	50.48	204
Aug. 7	32.587	119	96.23	147	36.67	36	48.44	246
17	32.468	95	94.76	181	36.31	30	45.98	285
27	32.373	65	92.95	213	36.01	22	43.13	318
Sept. 6	32.308	29	90.82	242	35.79	15	39.95	344
16	32.279	11	88.40	268	35.64	6	36.51	364
26	32.290	57	85.72	290	35.58	5	32.87	379
Okt. 6	32.347	107	82.82	305	35.63	14	29.08	384
16	32.454	159	79.77	317	35.77	24	25.24	381
26	32.613	212	76.60	321	36.01	35	21.43	371
Nov. 5	32.825	264	73.39	318	36.36	45	17.72	349
15	33.089	312	70.21	306	36.81	55	14.23	320
25	33.401	352	67.15	286	37.36	63	11.03	282
Dez. 5	33.753	384	64.29	259	37.99	69	8.21	234
15	34.137	405	61.70	222	38.68	74	5.87	180
25	34.542	412	59.48	178	39.42	76	4.07	118
35	34.954		57.70		40.18		2.89	
Mittl. Ort	31.090		95.91		35.46		46.19	
sec δ, tg δ	1.340		+0.892		2.947		+2.772	
a, a′	+2.9		−19.9		+2.6		−19.9	
b, b′	−0.06		+ 0.13		−0.18		+ 0.13	

Tag	471) β Corvi AR.		471) Dekl.		473) 24 Comae sq. AR.		473) Dekl.	
1932	12h 30m		−23° 1′		12h 31m		+18° 44′	
Jan. 1	48.433	359	9.92	226	43.466	352	55.02	196
11	48.792	343	12.18	238	43.818	339	53.06	163
21	49.135	317	14.56	245	44.157	315	51.43	127
31	49.452	283	17.01	244	44.472	285	50.16	89
Feb. 10	49.735	246	19.45	237	44.757	247	49.27	49
20	49.981	204	21.82	225	45.004	205	48.78	10
März 1	50.185	162	24.07	209	45.209	163	48.68	26
11	50.347	122	26.16	190	45.372	119	48.94	56
21	50.469	84	28.06	169	45.491	79	49.50	82
30	50.553	48	29.75	147	45.570	42	50.32	101
Apr. 9	50.601	17	31.22	123	45.612	8	51.33	115
19	50.618	11	32.45	100	45.620	20	52.48	121
29	50.607	35	33.45	76	45.600	44	53.69	122
Mai 9	50.572	54	34.21	53	45.556	63	54.91	118
19	50.518	72	34.74	30	45.493	79	56.09	109
29	50.446	86	35.04	7	45.414	90	57.18	96
Juni 8	50.360	97	35.11	16	45.324	99	58.14	81
18	50.263	104	34.95	37	45.225	103	58.95	62
28	50.159	109	34.58	56	45.122	105	59.57	42
Juli 8	50.050	110	34.02	75	45.017	104	59.99	21
18	49.940	107	33.27	91	44.913	99	60.20	2
28	49.833	99	32.36	103	44.814	90	60.18	25
Aug. 7	49.734	85	31.33	112	44.724	77	59.93	50
17	49.649	66	30.21	117	44.647	59	59.43	75
27	49.583	41	29.04	115	44.588	36	58.68	99
Sept. 6	49.542	9	27.89	108	44.552	9	57.69	124
16	49.533	28	26.81	95	44.543	25	56.45	149
26	49.561	70	25.86	75	44.568	63	54.96	174
Okt. 6	49.631	116	25.11	51	44.631	104	53.22	197
16	49.747	164	24.60	21	44.735	148	51.25	217
26	49.911	211	24.39	14	44.883	192	49.08	234
Nov. 5	50.122	256	24.53	51	45.075	237	46.74	246
15	50.378	296	25.04	89	45.312	275	44.28	254
25	50.674	328	25.93	125	45.587	309	41.74	254
Dez. 5	51.002	351	27.18	160	45.896	334	39.20	247
15	51.353	364	28.78	189	46.230	349	36.73	233
25	51.717	364	30.67	214	46.579	354	34.40	212
35	52.081		32.81		46.933		32.28	
Mittl. Ort	48.626		15.38		43.232		64.18	
sec δ, tg δ	1.087		−0.425		1.056		+0.339	
a, a′	+3.1		−19.9		+3.0		−19.9	
b, b′	+0.03		+ 0.13		−0.02		+ 0.14	

Tag	474) α Muscae AR.		Dekl.		476) γ Centauri AR.		Dekl.		478) 76 Ursae maj. AR.		Dekl.		481) β Crucis AR.		Dekl.	
1932	$12^h\ 33^m$		−68° 45′		$12^h\ 37^m$		−48° 34′		$12^h\ 38^m$		+63° 4′		$12^h\ 43^m$		−59° 18′	
Jan. 1	^{s}5.14	74	″23.38	171	^{s}44.711	456	″58.99	199	^{s}37.23	61	″49.80	109	^{s}42.968	561	″47.43	175
11	5.88	69	25.09	222	45.167	435	60.98	237	37.84	59	48.71	45	43.529	536	49.18	222
21	6.57	64	27.31	268	45.602	403	63.35	268	38.43	56	48.26	18	44.065	498	51.40	261
31	7.21	57	29.99	305	46.005	362	66.03	292	38.99	51	48.44	80	44.563	449	54.01	293
Feb. 10	7.78	49	33.04	334	46.367	313	68.95	306	39.50	44	49.24	137	45.012	391	56.94	319
20	8.27	40	36.38	354	46.680	262	72.01	315	39.94	36	50.61	187	45.403	327	60.13	334
März 1	8.67	31	39.92	367	46.942	208	75.16	315	40.30	28	52.48	228	45.730	262	63.47	342
11	8.98	21	43.59	370	47.150	155	78.31	309	40.58	18	54.76	257	45.992	196	66.89	343
21	9.19	13	47.29	366	47.305	104	81.40	298	40.76	10	57.33	275	46.188	130	70.32	337
31	9.32	4	50.95	354	47.409	57	84.38	280	40.86	1	60.08	283	46.318	68	73.69	324
Apr. 9	9.36	5	54.49	335	47.466	12	87.18	259	40.87	7	62.91	278	46.386	10	76.93	305
19	9.31	13	57.84	311	47.478	29	89.77	232	40.80	14	65.69	262	46.396	45	79.98	281
29	9.18	19	60.95	280	47.449	65	92.09	203	40.66	21	68.31	238	46.351	96	82.79	251
Mai 9	8.99	26	63.75	243	47.384	98	94.12	170	40.45	25	70.69	204	46.255	142	85.30	217
19	8.73	32	66.18	201	47.286	126	95.82	134	40.20	30	72.73	165	46.113	182	87.47	179
29	8.41	37	68.19	157	47.160	151	97.16	96	39.90	33	74.38	120	45.931	217	89.26	137
Juni 8	8.04	41	69.76	108	47.009	170	98.12	56	39.57	35	75.58	72	45.714	247	90.63	93
18	7.63	43	70.84	58	46.839	185	98.68	15	39.22	35	76.30	22	45.467	269	91.56	47
28	7.20	45	71.42	5	46.654	195	98.83	25	38.87	35	76.52	30	45.198	283	92.03	0
Juli 8	6.75	45	71.47	46	46.459	198	98.58	65	38.52	35	76.22	80	44.915	289	92.03	47
18	6.30	44	71.01	96	46.261	194	97.93	102	38.17	32	75.42	128	44.626	285	91.56	92
28	5.86	41	70.05	143	46.067	183	96.91	137	37.85	30	74.14	175	44.341	269	90.64	135
Aug. 7	5.45	36	68.62	186	45.884	162	95.54	167	37.55	26	72.39	218	44.072	242	89.29	172
17	5.09	30	66.76	222	45.722	133	93.87	190	37.29	22	70.21	258	43.830	204	87.57	204
27	4.79	23	64.54	250	45.589	96	91.97	208	37.07	17	67.63	292	43.626	154	85.53	229
Sept. 6	4.56	13	62.04	269	45.493	48	89.89	216	36.90	11	64.71	322	43.472	93	83.24	245
16	4.43	3	59.35	279	45.445	5	87.73	217	36.79	4	61.49	345	43.379	22	80.79	252
26	4.40	8	56.56	276	45.450	65	85.56	206	36.75	3	58.04	363	43.357	57	78.27	248
Okt. 6	4.48	19	53.80	262	45.515	130	83.50	188	36.78	10	54.41	373	43.414	141	75.79	234
16	4.67	32	51.18	237	45.645	197	81.62	159	36.88	19	50.68	375	43.555	226	73.45	209
26	4.99	43	48.81	202	45.842	262	80.03	123	37.07	26	46.93	369	43.781	309	71.36	174
Nov. 5	5.42	53	46.79	157	46.104	322	78.80	79	37.33	35	43.24	354	44.090	386	69.62	131
15	5.95	61	45.22	105	46.426	374	78.01	31	37.68	43	39.70	329	44.476	453	68.31	81
25	6.56	68	44.17	46	46.800	417	77.70	21	38.11	49	36.41	296	44.929	507	67.50	27
Dez. 5	7.24	73	43.71	14	47.217	447	77.91	73	38.60	54	33.45	253	45.436	546	67.23	30
15	7.97	75	43.85	75	47.664	463	78.64	124	39.14	58	30.92	203	45.982	567	67.53	87
25	8.72	75	44.60	135	48.127	464	79.88	171	39.72	59	28.89	146	46.549	569	68.40	142
35	9.47		45.95		48.591		81.59		40.31		27.43		47.118		69.82	
Mittl. Ort	6.54		40.57		45.353		71.88		36.15		70.18		43.992		62.55	
sec δ, tg δ	2.761		−2.573		1.512		−1.134		2.209		+1.970		1.960		−1.685	
a, *a′*	+3.6		−19.8		+3.3		−19.8		+2.6		−19.8		+3.5		−19.7	
b, *b′*	+0.17		+ 0.14		+0.07		+ 0.16		−0.13		+ 0.17		+0.11		+ 0.19	

Scheinbare Sternörter 1932

Tag	482) n Centauri AR.		Dekl.		483) ε Ursae maj. AR.		Dekl.		484) δ Virginis AR.		Dekl.		486) 8 Draconis AR.		Dekl.	
1932	12ʰ 49ᵐ		−39° 48′		12ʰ 51ᵐ		+56° 19′		12ʰ 52ᵐ		+3° 45′		12ʰ 52ᵐ		+65° 47′	
Jan. 1	39.157	413	24.41	198	3.301	514	23.19	140	10.590	341	54.76	216	47.48	66	64.20	120
11	39.570	398	26.39	231	3.815	505	21.79	79	10.931	331	52.60	200	48.14	64	63.00	57
21	39.968	371	28.70	252	4.320	481	21.00	17	11.262	311	50.60	179	48.78	61	62.43	$\overline{9}$
31	40.339	337	31.22	270	4.801	442	20.83	$\overline{44}$	11.573	284	48.81	153	49.39	57	62.52	73
Feb. 10	40.676	296	33.92	279	5.243	389	21.27	102	11.857	252	47.28	123	49.96	50	63.25	132
20	40.972	252	36.71	281	5.632	327	22.29	154	12.109	214	46.05	93	50.46	42	64.57	184
März 1	41.224	206	39.52	279	5.959	258	23.83	198	12.323	175	45.12	62	50.88	32	66.41	227
11	41.430	159	42.31	270	6.217	186	25.81	231	12.498	137	44.50	33	51.20	23	68.68	259
21	41.589	116	45.01	256	6.403	114	28.12	255	12.635	100	44.17	6	51.43	13	71.27	281
31	41.705	74	47.57	238	6.517	43	30.67	268	12.735	65	44.11	16	51.56	4	74.08	290
Apr. 9	41.779	36	49.95	217	6.560	$\overline{22}$	33.35	268	12.800	35	44.27	35	51.60	$\overline{6}$	76.98	288
19	41.815	0	52.12	192	6.538	82	36.03	259	12.835	7	44.62	50	51.54	14	79.86	274
29	41.815	$\overline{31}$	54.04	166	6.456	132	38.62	240	12.842	$\overline{17}$	45.12	60	51.40	21	82.60	250
Mai 9	41.784	59	55.70	137	6.324	176	41.02	212	12.825	37	45.72	67	51.19	28	85.10	219
19	41.725	84	57.07	106	6.148	211	43.14	178	12.788	54	46.39	70	50.91	33	87.29	179
29	41.641	107	58.13	74	5.937	238	44.92	138	12.734	68	47.09	71	50.58	36	89.08	134
Juni 8	41.534	125	58.87	40	5.699	256	46.30	94	12.666	80	47.80	68	50.22	39	90.42	86
18	41.409	140	59.27	6	5.443	268	47.24	48	12.586	89	48.48	64	49.83	41	91.28	35
28	41.269	150	59.33	$\overline{27}$	5.175	271	47.72	0	12.497	95	49.12	58	49.42	41	91.63	$\overline{17}$
Juli 8	41.119	155	59.06	60	4.904	268	47.72	48	12.402	98	49.70	49	49.01	40	91.46	69
18	40.964	155	58.46	91	4.636	257	47.24	96	12.304	97	50.19	40	48.61	39	90.77	120
28	40.809	149	57.55	119	4.379	240	46.28	142	12.207	93	50.59	28	48.22	36	89.57	168
Aug. 7	40.660	134	56.36	143	4.139	217	44.86	185	12.114	84	50.87	14	47.86	33	87.89	212
17	40.526	112	54.93	162	3.922	183	43.01	226	12.030	69	51.01	$\overline{1}$	47.53	28	85.77	254
27	40.414	84	53.31	174	3.739	145	40.75	261	11.961	51	51.00	19	47.25	23	83.23	291
Sept. 6	40.330	45	51.57	180	3.594	100	38.14	294	11.910	25	50.81	39	47.02	16	80.32	322
16	40.285	0	49.77	177	3.494	46	35.20	321	11.885	$\overline{7}$	50.42	60	46.86	9	77.10	348
26	40.285	50	48.00	166	3.448	$\overline{12}$	31.99	342	11.892	43	49.82	84	46.77	2	73.62	367
Okt. 6	40.335	106	46.34	147	3.460	76	28.57	357	11.935	84	48.98	109	46.75	$\overline{7}$	69.95	379
16	40.441	165	44.87	120	3.536	145	25.00	364	12.019	128	47.89	134	46.82	16	66.16	382
26	40.606	222	43.67	86	3.681	215	21.36	364	12.147	173	46.55	158	46.98	25	62.34	377
Nov. 5	40.828	278	42.81	46	3.896	283	17.72	355	12.320	216	44.97	181	47.23	34	58.57	364
15	41.106	326	42.35	1	4.179	348	14.17	337	12.536	256	43.16	200	47.57	42	54.93	340
25	41.432	366	42.34	$\overline{44}$	4.527	406	10.80	309	12.792	291	41.16	215	47.99	50	51.53	308
Dez. 5	41.798	396	42.78	91	4.933	453	7.71	272	13.083	318	39.01	224	48.49	57	48.45	265
15	42.194	413	43.69	135	5.386	488	4.99	227	13.401	334	36.77	226	49.06	61	45.80	215
25	42.607	418	45.04	175	5.874	507	2.72	174	13.735	342	34.51	222	49.67	64	43.65	158
35	43.025		46.79		6.381		0.98		14.077		32.29		50.31		42.07	
Mittl. Ort	39.713		34.45		2.614		42.92		10.634		59.52		46.48		85.41	
sec δ, tg δ	1.302		−0.834		1.804		+1.501		1.002		+0.066		2.442		+2.226	
a, a'	+3.3		−19.6		+2.6		−19.5		+3.1		−19.5		+2.4		−19.5	
b, b'	+0.05		+ 0.22		−0.10		+ 0.22		0.00		+ 0.23		−0.14		+ 0.23	

Tag	485) 12 Can. ven. sq. AR.		Dekl.		488) ε Virginis AR.		Dekl.	
1932	12h 52m		+38° 40′		12h 58m		+11° 18′	
	s		″		s		″	
Jan. 1	51.344	400	50.99	176	47.502	344	79.66	213
11	51.744	391	49.23	127	47.846	337	77.53	189
21	52.135	371	47.96	75	48.183	318	75.64	160
31	52.506	340	47.21	21	48.501	292	74.04	127
Feb. 10	52.846	301	47.00	31	48.793	259	72.77	92
20	53.147	255	47.31	80	49.052	223	71.85	55
März 1	53.402	205	48.11	123	49.275	183	71.30	20
11	53.607	154	49.34	159	49.458	144	71.10	11
21	53.761	104	50.93	185	49.602	106	71.21	39
31	53.865	56	52.78	204	49.708	71	71.60	62
Apr. 9	53.921	12	54.82	212	49.779	38	72.22	80
19	53.933	27	56.94	212	49.817	10	73.02	91
29	53.906	61	59.06	203	49.827	15	73.93	99
Mai 9	53.845	89	61.09	186	49.812	37	74.92	101
19	53.756	113	62.95	163	49.775	56	75.93	98
29	53.643	131	64.58	135	49.719	70	76.91	92
Juni 8	53.512	145	65.93	104	49.649	83	77.83	84
18	53.367	154	66.97	68	49.566	93	78.67	71
28	53.213	159	67.65	31	49.473	100	79.38	58
Juli 8	53.054	158	67.96	7	49.373	103	79.96	43
18	52.896	155	67.89	45	49.270	103	80.39	25
28	52.741	145	67.44	83	49.167	99	80.64	7
Aug. 7	52.596	130	66.61	120	49.068	91	80.71	12
17	52.466	111	65.41	156	48.977	77	80.59	34
27	52.355	85	63.85	190	48.900	57	80.25	56
Sept. 6	52.270	53	61.95	221	48.843	33	79.69	79
16	52.217	15	59.74	249	48.810	2	78.90	104
26	52.202	28	57.25	274	48.808	35	77.86	128
Okt. 6	52.230	76	54.51	294	48.843	76	76.58	153
16	52.306	127	51.57	310	48.919	119	75.05	176
26	52.433	180	48.47	318	49.038	165	73.29	198
Nov. 5	52.613	232	45.29	319	49.203	210	71.31	217
15	52.845	282	42.10	313	49.413	251	69.14	231
25	53.127	324	38.97	299	49.664	287	66.83	239
Dez. 5	53.451	360	35.98	275	49.951	316	64.44	241
15	53.811	384	33.23	243	50.267	335	62.03	236
25	54.195	396	30.80	204	50.602	343	59.67	223
35	54.591		28.76		50.945		57.44	
Mittl. Ort	51.013		66.86		47.514		87.28	
sec δ, tg δ	1.281		+0.801		1.020		+0.200	
a, *a′*	+2.8		−19.5		+3.0		−19.4	
b, *b′*	−0.05		+ 0.23		−0.01		+ 0.25	

Tag	490) θ Virginis AR.		Dekl.		492) 43 Comae AR.		Dekl.	
1932	13h 6m		−5° 10′		13h 8m		+28° 12′	
	s		″		s		″	
Jan. 1	25.401	343	37.37	216	42.205	366	67.23	201
11	25.744	336	39.53	210	42.571	360	65.22	160
21	26.080	318	41.63	199	42.931	345	63.62	116
31	26.398	293	43.62	182	43.276	319	62.46	68
Feb. 10	26.691	262	45.44	160	43.595	285	61.78	21
20	26.953	226	47.04	136	43.880	246	61.57	26
März 1	27.179	190	48.40	110	44.126	204	61.83	69
11	27.369	153	49.50	84	44.330	160	62.52	105
21	27.522	116	50.34	59	44.490	117	63.57	135
31	27.638	83	50.93	37	44.607	76	64.92	158
Apr. 9	27.721	52	51.30	16	44.683	37	66.50	172
19	27.773	25	51.46	1	44.720	3	68.22	179
29	27.798	0	51.45	16	44.723	26	70.01	177
Mai 9	27.798	22	51.29	28	44.697	53	71.78	169
19	27.776	41	51.01	38	44.644	75	73.47	156
29	27.735	57	50.63	45	44.569	94	75.03	136
Juni 8	27.678	72	50.18	51	44.475	109	76.39	113
18	27.606	84	49.67	54	44.366	121	77.52	86
28	27.522	92	49.13	56	44.245	128	78.38	57
Juli 8	27.430	98	48.57	56	44.117	132	78.95	27
18	27.332	101	48.01	55	43.985	132	79.22	5
28	27.231	100	47.46	51	43.853	128	79.17	37
Aug. 7	27.131	92	46.95	45	43.725	119	78.80	69
17	27.039	79	46.50	37	43.606	105	78.11	101
27	26.960	61	46.13	25	43.501	84	77.10	132
Sept. 6	26.899	36	45.88	10	43.417	57	75.78	163
16	26.863	5	45.78	8	43.360	24	74.15	191
26	26.858	31	45.86	28	43.336	14	72.24	218
Okt. 6	26.889	73	46.14	53	43.350	58	70.06	242
16	26.962	118	46.67	79	43.408	105	67.64	262
26	27.080	163	47.46	105	43.513	154	65.02	277
Nov. 5	27.243	209	48.51	133	43.667	203	62.25	286
15	27.452	251	49.84	157	43.870	250	59.39	290
25	27.703	287	51.41	180	44.120	290	56.49	285
Dez. 5	27.990	316	53.21	197	44.410	324	53.64	272
15	28.306	334	55.18	209	44.734	348	50.92	251
25	28.640	343	57.27	215	45.082	362	48.41	222
35	28.983		59.42		45.444		46.19	
Mittl. Ort	25.616		35.27		42.117		80.65	
sec δ, tg δ	1.004		−0.091		1.135		+0.537	
a, *a′*	+3.1		−19.2		+2.9		−19.2	
b, *b′*	+0.01		+ 0.29		−0.03		+ 0.30	

Scheinbare Sternörter 1932

Tag	495) γ Hydrae AR.	Δ	Dekl.	Δ	496) ι Centauri AR.	Δ	Dekl.	Δ	497) ζ Ursae maj. pr. AR.	Δ	Dekl.	Δ	498) α Virginis AR.	Δ	Dekl.	Δ
1932	13h 15m		−22° 48′		13h 16m		−36° 21′		13h 21m		+55° 16′		13h 21m		−10° 48′	
Jan. 1	12.765	365	44.55	199	45.291	403	7.20	178	11.802	493	27.80	176	36.096	347	25.70	208
11	13.130	358	46.54	213	45.694	394	8.98	206	12.295	495	26.04	117	36.443	342	27.78	210
21	13.488	340	48.67	221	46.088	375	11.04	229	12.790	481	24.87	55	36.785	327	29.88	205
31	13.828	315	50.88	223	46.463	347	13.33	244	13.271	452	24.32	9	37.112	304	31.93	194
Feb. 10	14.143	282	53.11	218	46.810	311	15.77	253	13.723	409	24.41	69	37.416	274	33.87	178
20	14.425	247	55.29	209	47.121	273	18.30	255	14.132	356	25.10	126	37.690	241	35.65	158
März 1	14.672	209	57.38	196	47.394	231	20.85	252	14.488	294	26.36	175	37.931	206	37.23	136
11	14.881	171	59.34	180	47.625	189	23.37	244	14.782	228	28.11	216	38.137	169	38.59	114
21	15.052	134	61.14	161	47.814	148	25.81	232	15.010	160	30.27	246	38.306	134	39.73	91
31	15.186	100	62.75	141	47.962	109	28.13	217	15.170	92	32.73	265	38.440	100	40.64	69
Apr. 10	15.286	67	64.16	121	48.071	72	30.30	199	15.262	28	35.38	274	38.540	70	41.33	49
19	[10] 15.353	36	65.37	101	[11] 48.143	37	32.29	178	[12] 15.290	32	38.12	271	[12] 38.610	41	41.82	30
29	15.389	9	66.38	81	48.180	4	34.07	154	15.258	87	40.83	258	38.651	15	42.12	13
Mai 9	15.398	15	67.19	61	48.184	25	35.61	130	15.171	135	43.41	236	38.666	9	42.25	1
19	15.383	38	67.80	41	48.159	52	36.91	104	15.036	175	45.77	207	38.657	29	42.24	13
29	15.345	59	68.21	21	48.107	77	37.95	76	14.861	209	47.84	170	38.628	49	42.11	25
Juni 8	15.286	76	68.42	1	48.030	100	38.71	47	14.652	235	49.54	129	38.579	66	41.86	35
18	15.210	92	68.43	17	47.930	118	39.18	17	14.417	254	50.83	85	38.513	81	41.51	43
28	15.118	104	68.26	36	47.812	133	39.35	12	14.163	267	51.68	37	38.432	92	41.08	49
Juli 8	15.014	113	67.90	53	47.679	144	39.23	41	13.896	272	52.05	11	38.340	101	40.59	55
18	14.901	118	67.37	68	47.535	149	38.82	69	13.624	271	51.94	59	38.239	106	40.04	59
28	14.783	117	66.69	81	47.386	148	38.13	95	13.353	261	51.35	107	38.133	107	39.45	60
Aug. 7	14.666	110	65.88	92	47.238	140	37.18	118	13.092	244	50.28	152	38.026	102	38.85	59
17	14.556	98	64.96	99	47.098	125	36.00	135	12.848	220	48.76	196	37.924	92	38.26	56
27	14.458	77	63.97	100	46.973	101	34.65	149	12.628	188	46.80	236	37.832	74	37.70	49
Sept. 6	14.381	51	62.97	98	46.872	69	33.16	156	12.440	148	44.44	272	37.758	50	37.21	38
16	14.330	17	61.99	89	46.803	29	31.60	155	12.292	100	41.72	304	37.708	20	36.83	24
26	14.313	24	61.10	75	46.774	19	30.05	147	12.192	44	38.68	331	37.688	18	36.59	6
Okt. 6	14.337	70	60.35	55	46.793	71	28.58	132	12.148	18	35.37	351	37.706	59	36.53	17
16	14.407	119	59.80	31	46.864	128	27.26	110	12.166	85	31.86	364	37.765	105	36.70	41
26	14.526	169	59.49	1	46.992	185	26.16	80	12.251	155	28.22	369	37.870	153	37.11	69
Nov. 5	14.695	219	59.48	32	47.177	240	25.36	44	12.406	226	24.53	366	38.023	200	37.80	97
15	14.914	264	59.80	65	47.417	292	24.92	5	12.632	294	20.87	354	38.223	243	38.77	125
25	15.178	304	60.45	100	47.709	336	24.87	37	12.926	357	17.33	332	38.466	282	40.02	151
Dez. 5	15.482	334	61.45	133	48.045	370	25.24	79	13.283	411	14.01	300	38.748	314	41.53	173
15	15.816	355	62.78	161	48.415	392	26.03	119	13.694	452	11.01	259	39.062	334	43.26	191
25	16.171	365	64.39	185	48.807	403	27.22	156	14.146	481	8.42	209	39.396	346	45.17	204
35	16.536		66.24		49.210		28.78		14.627		6.33		39.742		47.21	
Mittl. Ort	13.228		48.20		45.972		15.07		11.486		48.13		36.456		25.00	
sec δ, tg δ	1.085		−0.421		1.242		−0.736		1.756		+1.443		1.018		−0.191	
a, a'	+3.3		−19.0		+3.4		−18.9		+2.4		−18.8		+3.2		−18.8	
b, b'	+0.03		+0.32		+0.05		+0.33		−0.09		+0.35		+0.01		+0.35	

Tag	499) Grb 2001				500) 69 H. Urs. maj.				501) ζ Virginis				502) 17 H. Can. ven.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$13^h 24^m$		$+72° 43'$		$13^h 25^m$		$+60° 17'$		$13^h 31^m$		$-0° 14'$		$13^h 31^m$		$+37° 31'$	
Jan. 1	24.63	83	76.62	146	57.88	54	26.51	172	13.276	340	60.75	215	45.733	388	32.20	211
11	25.46	84	75.16	80	58.42	55	24.79	111	13.616	337	62.90	204	46.121	388	30.09	163
21	26.30	83	74.36	13	58.97	54	23.68	47	13.953	324	64.94	188	46.509	378	28.46	111
31	27.13	78	74.23	53	59.51	51	23.21	18	14.277	304	66.82	166	46.887	356	27.35	56
Feb. 10	27.91	71	74.76	116	60.02	46	23.39	81	14.581	276	68.48	140	47.243	325	26.79	2
20	28.62	62	75.92	173	60.48	40	24.20	138	14.857	244	69.88	112	47.568	286	26.77	51
März 1	29.24	50	77.65	222	60.88	34	25.58	188	15.101	210	71.00	83	47.854	243	27.28	100
11	29.74	38	79.87	260	61.22	26	27.46	229	15.311	174	71.83	54	48.097	196	28.28	141
21	30.12	25	82.47	287	61.48	18	29.75	260	15.485	139	72.37	28	48.293	149	29.69	175
31	30.37	12	85.34	301	61.66	10	32.35	279	15.624	107	72.65	4	48.442	103	31.44	200
Apr. 10	30.49	2	88.35	304	61.76	2	35.14	287	15.731	75	72.69	17	48.545	59	33.44	215
19	[13] 30.47	14	91.39	295	[13] 61.78	4	38.01	282	[14] 15.806	46	72.52	34	[15] 48.604	18	35.59	222
29	30.33	26	94.34	275	61.74	11	40.83	269	15.852	20	72.18	46	48.622	18	37.81	219
Mai 9	30.07	35	97.09	246	61.63	17	43.52	245	15.872	4	71.72	56	48.604	52	40.00	208
19	29.72	44	99.55	209	61.46	21	45.97	213	15.868	26	71.16	62	48.552	81	42.08	190
29	29.28	51	101.64	165	61.25	26	48.10	176	15.842	45	70.54	65	48.471	105	43.98	166
Juni 8	28.77	57	103.29	116	60.99	29	49.86	132	15.797	62	69.89	66	48.366	126	45.64	136
18	28.20	61	104.45	65	60.70	31	51.18	85	15.735	78	69.23	64	48.240	143	47.00	104
28	27.59	62	105.10	11	60.39	32	52.03	35	15.657	91	68.59	61	48.097	156	48.04	68
Juli 8	26.97	63	105.21	42	60.07	33	52.38	14	15.566	99	67.98	56	47.941	163	48.72	29
18	26.34	63	104.79	96	59.74	34	52.24	65	15.467	106	67.42	48	47.778	167	49.01	9
28	25.71	60	103.83	147	59.40	32	51.59	115	15.361	108	66.94	40	47.611	165	48.92	48
Aug. 7	25.11	56	102.36	196	59.08	30	50.44	162	15.253	104	66.54	30	47.446	158	48.44	88
17	24.55	50	100.40	241	58.78	27	48.82	206	15.149	96	66.24	17	47.288	145	47.56	126
27	24.05	44	97.99	281	58.51	24	46.76	248	15.053	80	66.07	2	47.143	124	46.30	162
Sept. 6	23.61	36	95.18	317	58.27	19	44.28	284	14.973	58	66.05	15	47.019	98	44.68	197
16	23.25	27	92.01	346	58.08	14	41.44	316	14.915	30	66.20	34	46.921	63	42.71	230
26	22.98	17	88.55	369	57.94	7	38.28	343	14.885	6	66.54	56	46.858	23	40.41	259
Okt. 6	22.81	5	84.86	384	57.87	0	34.85	363	14.891	46	67.10	80	46.835	24	37.82	283
16	22.76	7	81.02	392	57.87	7	31.22	374	14.937	90	67.90	104	46.859	75	34.99	304
26	22.83	19	77.10	391	57.94	15	27.48	379	15.027	137	68.94	129	46.934	128	31.95	319
Nov. 5	23.02	32	73.19	380	58.09	23	23.69	375	15.164	184	70.23	154	47.062	184	28.76	326
15	23.34	44	69.39	359	58.32	31	19.94	360	15.348	228	71.77	176	47.246	237	25.50	325
25	23.78	56	65.80	329	58.63	38	16.34	336	15.576	267	73.53	194	47.483	285	22.25	317
Dez. 5	24.34	66	62.51	289	59.01	45	12.98	302	15.843	299	75.47	208	47.768	326	19.08	298
15	25.00	74	59.62	240	59.46	49	9.96	259	16.142	323	77.55	215	48.094	358	16.10	271
25	25.74	80	57.22	183	59.95	53	7.37	207	16.465	336	79.70	216	48.452	379	13.39	236
35	26.54		55.39		60.48		5.30		16.801		81.86		48.831		11.03	
Mittl. Ort	23.88		99.29		57.53		47.76		13.587		56.03		45.729		48.81	
sec δ, tg δ	3.371		+3.219		2.018		+1.753		1.000		−0.004		1.261		+0.768	
a, *a'*	+1.5		−18.7		+2.2		−18.7		+3.1		−18.5		+2.7		−18.5	
b, *b'*	−0.20		+ 0.36		−0.11		+ 0.37		0.00		+0.39		−0.05		+ 0.39	

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Tag	504) ε Centauri AR.	Δ	504) ε Centauri Dekl.	Δ	507) τ Bootis AR.	Δ	507) τ Bootis Dekl.	Δ
1932	13h 35m		−53° 7′		13h 44m		+17° 47′	
Jan. 1	32.654	508	6.03	122	1.600	343	30.63	224
11	33.162	501	7.25	166	1.943	345	28.39	195
21	33.663	483	8.91	204	2.288	335	26.44	161
31	34.146	453	10.95	237	2.623	317	24.83	121
Feb. 10	34.599	414	13.32	262	2.940	291	23.62	79
20	35.013	368	15.94	280	3.231	259	22.83	37
März 1	35.381	318	18.74	293	3.490	225	22.46	4
11	35.699	267	21.67	298	3.715	188	22.50	42
21	35.966	214	24.65	297	3.903	151	22.92	75
31	36.180	163	27.62	290	4.054	114	23.67	102
Apr. 10	36.343	112	30.52	279	4.168	80	24.69	122
19	36.455	63	33.31	263	4.248	49	25.91	136
29	36.518	16	35.94	242	4.297	19	27.27	143
Mai 9	36.534	28	38.36	216	4.316	8	28.70	144
19	36.506	71	40.52	188	4.308	33	30.14	139
29	36.435	110	42.40	155	4.275	55	31.53	130
Juni 8	36.325	146	43.95	119	4.220	73	32.83	115
18	36.179	177	45.14	81	4.147	91	33.98	98
28	36.002	203	45.95	40	4.056	105	34.96	79
Juli 8	35.799	222	46.35	1	3.951	115	35.75	56
18	35.577	234	46.34	41	3.836	122	36.31	32
28	35.343	236	45.93	81	3.714	125	36.63	6
Aug. 7	35.107	227	45.12	119	3.589	123	36.69	19
17	34.880	209	43.93	152	3.466	115	36.50	46
27	34.671	178	42.41	180	3.351	100	36.04	74
Sept. 6	34.493	136	40.61	201	3.251	79	35.30	101
16	34.357	84	38.60	214	3.172	51	34.29	129
26	34.273	20	36.46	219	3.121	17	33.00	157
Okt. 6	34.253	50	34.27	214	3.104	24	31.43	183
16	34.303	124	32.13	199	3.128	68	29.60	207
26	34.427	201	30.14	175	3.196	117	27.53	228
Nov. 5	34.628	276	28.39	143	3.313	165	25.25	246
15	34.904	345	26.96	102	3.478	212	22.79	259
25	35.249	404	25.94	57	3.690	254	20.20	265
Dez. 5	35.653	453	25.37	8	3.944	291	17.55	263
15	36.106	486	25.29	42	4.235	319	14.92	255
25	36.592	505	25.71	91	4.554	336	12.37	237
35	37.097		26.62		4.890		10.00	
Mittl. Ort	33.916		17.40		1.838		41.78	
sec δ, tg δ	1.666		−1.333		1.050		+0.321	
a, a'	+3.8		−18.3		+2.9		−18.0	
b, b'	+0.08		+ 0.40		−0.02		+ 0.44	

Tag	509) η Ursae maj. AR.	Δ	509) η Ursae maj. Dekl.	Δ	510) 89 Virginis AR.	Δ	510) 89 Virginis Dekl.	Δ
1932	13h 44m		+49° 38′		13h 46m		−17° 47′	
Jan. 1	51.829	438	47.73	210	9.792	355	45.25	188
11	52.267	445	45.63	154	10.147	353	47.13	197
21	52.712	438	44.09	94	10.500	342	49.10	201
31	53.150	418	43.15	33	10.842	323	51.11	198
Feb. 10	53.568	386	42.82	28	11.165	296	53.09	191
20	53.954	344	43.10	87	11.461	265	55.00	178
März 1	54.298	293	43.97	139	11.726	233	56.78	162
11	54.591	239	45.36	184	11.959	198	58.40	144
21	54.830	181	47.20	221	12.157	163	59.84	125
31	55.011	124	49.41	246	12.320	130	61.09	106
Apr. 10	55.135	68	51.87	261	12.450	99	62.15	88
19	55.203	15	54.48	265	12.549	69	63.03	69
29	55.218	34	57.13	260	12.618	40	63.72	52
Mai 9	55.184	78	59.73	245	12.658	14	64.24	35
19	55.106	118	62.18	221	12.672	11	64.59	20
29	54.988	152	64.39	191	12.661	34	64.79	6
Juni 8	54.836	180	66.30	155	12.627	55	64.85	8
18	54.656	202	67.85	115	12.572	75	64.77	21
28	54.454	220	69.00	72	12.497	91	64.56	33
Juli 8	54.234	231	69.72	26	12.406	105	64.23	45
18	54.003	237	69.98	20	12.301	115	63.78	54
28	53.766	235	69.78	66	12.186	119	63.24	63
Aug. 7	53.531	226	69.12	112	12.067	118	62.61	68
17	53.305	211	68.00	155	11.949	111	61.93	72
27	53.094	187	66.45	198	11.838	96	61.21	72
Sept. 6	52.907	156	64.47	236	11.742	74	60.49	67
16	52.751	116	62.11	271	11.668	44	59.82	59
26	52.635	69	59.40	301	11.624	7	59.23	47
Okt. 6	52.566	15	56.39	327	11.617	37	58.76	28
16	52.551	46	53.12	346	11.654	83	58.48	5
26	52.597	109	49.66	358	11.737	134	58.43	20
Nov. 5	52.706	175	46.08	361	11.871	184	58.63	48
15	52.881	239	42.47	356	12.055	231	59.11	78
25	53.120	298	38.91	342	12.286	274	59.89	107
Dez. 5	53.418	351	35.49	317	12.560	309	60.96	135
15	53.769	394	32.32	282	12.869	335	62.31	158
25	54.163	423	29.50	239	13.204	350	63.89	178
35	54.586		27.11		13.554		65.67	
Mittl. Ort	51.835		67.38		10.370		45.94	
sec δ, tg δ	1.545		+1.177		1.050		−0.321	
a, a'	+2.4		−18.0		+3.3		−17.9	
b, b'	−0.07		+ 0.44		+0.02		+ 0.45	

Tag	512) ζ Centauri AR.		512) ζ Centauri Dekl.		513) η Bootis AR.		513) η Bootis Dekl.	
1932	13h 51m		−46° 57′		13h 51m		+18° 43′	
Jan. 1	15.979	459	7.32	119	26.542	343	64.75	229
11	16.438	457	8.51	157	26.885	346	62.46	198
21	16.895	444	10.08	191	27.231	337	60.48	162
31	17.339	421	11.99	219	27.568	321	58.86	123
Feb. 10	17.760	388	14.18	239	27.889	297	57.63	80
20	18.148	351	16.57	255	28.186	266	56.83	36
März 1	18.499	308	19.12	264	28.452	232	56.47	6
11	18.807	264	21.76	267	28.684	196	56.53	44
21	19.071	219	24.43	265	28.880	159	56.97	78
31	19.290	174	27.08	259	29.039	123	57.75	106
Apr. 10	19.464	130	29.67	247	29.162	88	58.81	127
19*	19.594	87	32.14	233	29.250	56	60.08	141
29	19.681	46	34.47	214	29.306	25	61.49	149
Mai 9	19.727	6	36.61	191	29.331	2	62.98	150
19	19.733	32	38.52	166	29.329	27	64.48	145
29	19.701	68	40.18	138	29.302	50	65.93	135
Juni 8	19.633	102	41.56	107	29.252	71	67.28	120
18	19.531	132	42.63	74	29.181	89	68.48	103
28	19.399	159	43.37	39	29.092	104	69.51	82
Juli 8	19.240	179	43.76	3	28.988	116	70.33	58
18	19.061	193	43.79	33	28.872	125	70.91	34
28	18.868	199	43.46	68	28.747	128	71.25	8
Aug. 7	18.669	197	42.78	101	28.619	126	71.33	20
17	18.472	185	41.77	130	28.493	119	71.13	48
27	18.287	163	40.47	155	28.374	107	70.65	76
Sept. 6	18.124	129	38.92	175	28.267	86	69.89	104
16	17.995	85	37.17	187	28.181	59	68.85	133
26	17.910	32	35.30	190	28.122	24	67.52	160
Okt. 6	17.878	29	33.40	185	28.098	16	65.92	188
16	17.907	95	31.55	172	28.114	61	64.04	212
26	18.002	164	29.83	151	28.175	109	61.92	233
Nov. 5	18.166	232	28.32	120	28.284	158	59.59	251
15	18.398	296	27.12	84	28.442	205	57.08	264
25	18.694	352	26.28	43	28.647	249	54.44	270
Dez. 5	19.046	398	25.85	1	28.896	287	51.74	268
15	19.444	433	25.86	47	29.183	316	49.06	259
25	19.877	454	26.33	91	29.499	336	46.47	242
35	20.331		27.24		29.835		44.05	
Mittl. Ort	17.145		16.39		26.820		76.38	
sec δ, tg δ	1.465		−1.071		1.056		+0.339	
a, *a′*	+3.7		−17.7		+2.9		−17.7	
b, *b′*	+0.06		+ 0.47		−0.02		+ 0.47	

Tag	517) 11 Bootis AR.		517) 11 Bootis Dekl.		516) τ Virginis AR.		516) τ Virginis Dekl.	
1932	13h 58m		+27° 42′		13h 58m		+1° 51′	
Jan. 1	5.278	353	36.94	232	10.610	336	75.64	214
11	5.631	359	34.62	194	10.946	337	73.50	203
21	5.990	353	32.68	151	11.283	329	71.47	184
31	6.343	337	31.17	102	11.612	313	69.63	161
Feb. 10	6.680	313	30.15	53	11.925	291	68.02	133
20	6.993	283	29.62	3	12.216	263	66.69	102
März 1	7.276	247	29.59	45	12.479	232	65.67	72
11	7.523	209	30.04	87	12.711	198	64.95	42
21	7.732	169	30.91	124	12.909	165	64.53	13
31	7.901	130	32.15	153	13.074	132	64.40	12
Apr. 10	8.031	92	33.68	174	13.206	102	64.52	34
19*	8.123	56	35.42	188	13.308	72	64.86	51
29	8.179	23	37.30	192	13.380	44	65.37	63
Mai 9	8.202	8	39.22	190	13.424	18	66.00	72
19	8.194	36	41.12	180	13.442	6	66.72	77
29	8.158	62	42.92	165	13.436	28	67.49	78
Juni 8	8.096	85	44.57	144	13.408	49	68.27	77
18	8.011	105	46.01	120	13.359	69	69.04	73
28	7.906	122	47.21	91	13.290	85	69.77	67
Juli 8	7.784	134	48.12	61	13.205	98	70.44	59
18	7.650	144	48.73	28	13.107	109	71.03	50
28	7.506	148	49.01	5	12.998	115	71.53	38
Aug. 7	7.358	146	48.96	39	12.883	116	71.91	26
17	7.212	139	48.57	74	12.767	110	72.17	11
27	7.073	126	47.83	107	12.657	99	72.28	5
Sept. 6	6.947	105	46.76	140	12.558	80	72.23	23
16	6.842	76	45.36	173	12.478	53	72.00	43
26	6.766	41	43.63	203	12.425	21	71.57	65
Okt. 6	6.725	0	41.60	231	12.404	19	70.92	89
16	6.725	47	39.29	255	12.423	63	70.03	113
26	6.772	98	36.74	276	12.486	110	68.90	137
Nov. 5	6.870	150	33.98	291	12.596	158	67.53	160
15	7.020	200	31.07	299	12.754	204	65.93	182
25	7.220	247	28.08	299	12.958	246	64.11	199
Dez. 5	7.467	288	25.09	292	13.204	282	62.12	211
15	7.755	320	22.17	276	13.486	311	60.01	217
25	8.075	343	19.41	250	13.797	328	57.84	216
35	8.418		16.91		14.125		55.68	
Mittl. Ort	5.541		51.39		11.055		81.98	
sec δ, tg δ	1.130		+0.525		1.000		+0.033	
a, *a′*	+2.7		−17.4		+3.1		−17.4	
b, *b′*	−0.03		+ 0.49		0.00		+ 0.49	

*) Bei Stern 513), 517) und 516) lies April 20

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Tag	518) β Centauri AR.		518) β Centauri Dekl.		521) α Draconis AR.		521) α Draconis Dekl.	
1932	$13^h\ 58^m$		−60° 2′		$14^h\ 2^m$		+64° 41′	
Jan. 1	58.63	59	34.37	73	32.70	58	39.36	208
11	59.22	59	35.10	122	33.28	61	37.28	147
21	59.81	57	36.32	166	33.89	60	35.81	81
31	60.38	55	37.98	206	34.49	59	35.00	14
Feb. 10	60.93	52	40.04	240	35.08	56	34.86	52
20	61.45	46	42.44	266	35.64	50	35.38	114
März 1	61.91	41	45.10	286	36.14	43	36.52	170
11	62.32	35	47.96	299	36.57	35	38.22	219
21	62.67	30	50.95	306	36.92	27	40.41	256
31	62.97	24	54.01	307	37.19	19	42.97	283
Apr. 10	63.21	17	57.08	302	37.38	9	45.80	297
20	[21] 63.38	11	60.10	292	[22] 37.47	1	48.77	301
29	63.49	6	63.02	275	37.48	8	51.78	293
Mai 9	63.55	1	65.77	254	37.40	15	54.71	274
19	63.54	6	68.31	228	37.25	22	57.45	248
29	63.48	11	70.59	198	37.03	27	59.93	212
Juni 8	63.37	17	72.57	162	36.76	33	62.05	172
18	63.20	21	74.19	123	36.43	36	63.77	126
28	62.99	24	75.42	82	36.07	40	65.03	76
Juli 8	62.75	28	76.24	38	35.67	41	65.79	25
18	62.47	30	76.62	7	35.26	43	66.04	27
28	62.17	31	76.55	51	34.83	43	65.77	79
Aug. 7	61.86	30	76.04	95	34.40	41	64.98	129
17	61.56	28	75.09	135	33.99	39	63.69	178
27	61.28	25	73.74	171	33.60	36	61.91	223
Sept. 6	61.03	21	72.03	201	33.24	31	59.68	265
16	60.82	15	70.02	222	32.93	25	57.03	302
26	60.67	8	67.80	236	32.68	19	54.01	333
Okt. 6	60.59	1	65.44	239	32.49	11	50.68	359
16	60.60	9	63.05	232	32.38	3	47.09	376
26	60.69	19	60.73	216	32.35	7	43.33	386
Nov. 5	60.88	28	58.57	188	32.42	16	39.47	388
15	61.16	36	56.69	153	32.58	26	35.59	378
25	61.52	44	55.16	111	32.84	34	31.81	359
Dez. 5	61.96	50	54.05	62	33.18	43	28.22	329
15	62.46	55	53.43	12	33.61	50	24.93	290
25	63.01	58	53.31	40	34.11	55	22.03	241
35	63.59		53.71		34.66		19.62	
Mittl. Ort	60.44		45.85		32.83		61.58	
sec δ, tg δ	2.003		−1.735		2.340		+2.116	
a, a'	+4.2		−17.4		+1.6		−17.2	
b, b'	+0.10		+ 0.50		−0.12		+ 0.51	

Tag	520) ϑ Centauri AR.		520) ϑ Centauri Dekl.		522) d Bootis AR.		522) d Bootis Dekl.	
1932	$14^h\ 2^m$		−36° 2′		$14^h\ 7^m$		+25° 24′	
Jan. 1	39.374	400	5.37	136	17.572	347	32.88	237
11	39.774	401	6.73	165	17.919	352	30.51	201
21	40.175	392	8.38	188	18.271	349	28.50	159
31	40.567	374	10.26	206	18.620	335	26.91	114
Feb. 10	40.941	347	12.32	217	18.955	313	25.77	65
20	41.288	315	14.49	223	19.268	285	25.12	16
März 1	41.603	280	16.72	224	19.553	251	24.96	31
11	41.883	243	18.96	221	19.804	215	25.27	73
21	42.126	205	21.17	213	20.019	177	26.00	111
31	42.331	168	23.30	203	20.196	139	27.11	141
Apr. 10	42.499	131	25.33	189	20.335	102	28.52	164
20	[22] 42.630	96	27.22	174	20.437	68	30.16	178
29	42.726	61	28.96	157	[24] 20.505	34	31.94	186
Mai 9	42.787	28	30.53	138	20.539	4	33.80	185
19	42.815	4	31.91	117	20.543	25	35.65	177
29	42.811	36	33.08	94	20.518	51	37.42	164
Juni 8	42.775	64	34.02	71	20.467	74	39.06	145
18	42.711	91	34.73	45	20.393	96	40.51	123
28	42.620	115	35.18	19	20.297	114	41.74	96
Juli 8	42.505	135	35.37	8	20.183	128	42.70	68
18	42.370	149	35.29	34	20.055	139	43.38	38
28	42.221	158	34.95	60	19.916	145	43.76	5
Aug. 7	42.063	159	34.35	83	19.771	146	43.81	28
17	41.904	152	33.52	104	19.625	141	43.53	60
27	41.752	136	32.48	120	19.484	128	42.93	93
Sept. 6	41.616	111	31.28	132	19.356	109	42.00	126
16	41.505	76	29.96	139	19.247	82	40.74	158
26	41.429	33	28.57	137	19.165	48	39.16	189
Okt. 6	41.396	17	27.20	129	19.117	7	37.27	217
16	41.413	74	25.91	115	19.110	38	35.10	242
26	41.487	132	24.76	92	19.148	88	32.68	264
Nov. 5	41.619	192	23.84	65	19.236	140	30.04	280
15	41.811	248	23.19	32	19.376	190	27.24	291
25	42.059	298	22.87	5	19.566	237	24.33	294
Dez. 5	42.357	341	22.92	42	19.803	278	21.39	288
15	42.698	373	23.34	79	20.081	312	18.51	275
25	43.071	394	24.13	114	20.393	336	15.76	253
35	43.465		25.27		20.729		13.23	
Mittl. Ort	40.334		10.93		17.911		46.83	
sec δ, tg δ	1.237		−0.727		1.107		+0.475	
a, a'	+3.6		−17.2		+2.7		−17.0	
b, b'	+0.04		+ 0.51		−0.03		+ 0.53	

Tag	524) 4 Ursae min. AR.		Dekl.		523) κ Virginis AR.		Dekl.		525) ι Virginis AR.		Dekl.		526) α Bootis AR.		Dekl.	
1932	14h 9m		+77° 51′		14h 9m		−9° 57′		14h 12m		−5° 40′		14h 12m		+19° 31′	
Jan. 1	4.65	104	38.14	191	15.296	341	31.78	192	26.142	335	41.10	201	33.141	335	56.10	240
11	5.69	110	36.23	129	15.637	343	33.70	193	26.477	340	43.11	197	33.476	342	53.70	211
21	6.79	112	34.94	62	15.980	337	35.63	188	26.817	334	45.08	188	33.818	338	51.59	174
31	7.91	110	34.32	6	16.317	323	37.51	178	27.151	320	46.96	173	34.156	325	49.85	134
Feb. 10	9.01	104	34.38	73	16.640	300	39.29	162	27.471	299	48.69	153	34.481	305	48.51	90
20	10.05	95	35.11	135	16.940	274	40.91	142	27.770	273	50.22	129	34.786	278	47.61	45
März 1	11.00	82	36.46	191	17.214	245	42.33	122	28.043	244	51.51	104	35.064	246	47.16	1
11	11.82	67	38.37	238	17.459	212	43.55	98	28.287	213	52.55	78	35.310	212	47.15	39
21	12.49	50	40.75	273	17.671	181	44.53	76	28.500	181	53.33	54	35.522	177	47.54	76
31	12.99	32	43.48	297	17.852	149	45.29	55	28.681	149	53.87	31	35.699	142	48.30	106
Apr. 10	13.31	13	46.45	310	18.001	118	45.84	35	28.830	119	54.18	10	35.841	107	49.36	129
20	13.44	5	49.55	310	18.119	89	46.19	17	28.949	90	54.28	8	35.948	74	50.65	145
29	13.39	23	52.65	299	18.208	61	46.36	2	29.039	62	54.20	22	36.022	43	52.10	155
Mai 9	13.16	40	55.64	277	18.269	34	46.38	10	29.101	35	53.98	33	36.065	14	53.65	157
19	12.76	55	58.41	247	18.303	8	46.28	21	29.136	9	53.65	42	36.079	14	55.22	153
29	12.21	67	60.88	209	18.311	16	46.07	30	29.145	15	53.23	48	36.065	39	56.75	143
Juni 8	11.54	78	62.97	165	18.295	39	45.77	36	29.130	38	52.75	51	36.026	63	58.18	129
18	10.76	86	64.62	116	18.256	61	45.41	42	29.092	59	52.24	53	35.963	84	59.47	112
28	9.90	93	65.78	64	18.195	80	44.99	46	29.033	79	51.71	54	35.879	103	60.59	90
Juli 8	8.97	97	66.42	11	18.115	96	44.53	49	28.954	95	51.17	52	35.776	118	61.49	65
18	8.00	98	66.53	44	18.019	109	44.04	50	28.859	108	50.65	50	35.658	130	62.14	40
28	7.02	98	66.09	97	17.910	118	43.54	51	28.751	117	50.15	46	35.528	137	62.54	13
Aug. 7	6.04	95	65.12	148	17.792	120	43.03	49	28.634	120	49.69	40	35.391	139	62.67	16
17	5.09	90	63.64	197	17.672	117	42.54	45	28.514	117	49.29	32	35.252	135	62.51	44
27	4.19	83	61.67	242	17.555	106	42.09	40	28.397	107	48.97	23	35.117	125	62.07	74
Sept. 6	3.36	74	59.25	283	17.449	87	41.69	30	28.290	89	48.74	10	34.992	107	61.33	104
16	2.62	62	56.42	319	17.362	62	41.39	18	28.201	64	48.64	5	34.885	81	60.29	134
26	2.00	49	53.23	348	17.300	28	41.21	2	28.137	32	48.69	22	34.804	48	58.95	162
Okt. 6	1.51	34	49.75	370	17.272	12	41.19	17	28.105	7	48.91	43	34.756	10	57.33	190
16	1.17	17	46.05	386	17.284	57	41.36	38	28.112	52	49.34	66	34.746	35	55.43	216
26	1.00	0	42.19	392	17.341	105	41.74	62	28.164	100	50.00	90	34.781	84	53.27	239
Nov. 5	1.00	18	38.27	389	17.446	155	42.36	88	28.264	149	50.90	114	34.865	133	50.88	258
15	1.18	36	34.38	377	17.601	203	43.24	113	28.413	196	52.04	138	34.998	183	48.30	271
25	1.54	55	30.61	354	17.804	247	44.37	137	28.609	240	53.42	159	35.181	228	45.59	278
Dez. 5	2.09	71	27.07	321	18.051	285	45.74	158	28.849	278	55.01	178	35.409	269	42.81	278
15	2.80	85	23.86	278	18.336	313	47.32	174	29.127	308	56.79	190	35.678	302	40.03	270
25	3.65	97	21.08	226	18.649	333	49.06	186	29.435	328	58.69	198	35.980	324	37.33	253
35	4.62		18.82		18.982		50.92		29.763		60.67		36.304		34.80	
Mittl. Ort	4.97		61.45		15.910		28.98		26.730		36.78		33.547		68.42	
sec δ, tg δ	4.758		+4.652		1.015		−0.176		1.005		−0.099		1.061		+0.355	
a, a'	−0.2		−16.9		+3.2		−16.9		+3.1		−16.8		+2.8		−16.8	
b, b'	−0.26		+ 0.53		+0.01		+ 0.53		+0.01		+ 0.55		−0.02		+ 0.55	

Scheinbare Sternörter 1932

Tag	527) λ Bootis				531) ϑ Bootis				534) ρ Bootis				535) γ Bootis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$14^h\ 13^m$		$+46°\ 23'$		$14^h\ 22^m$		$+52°\ 9'$		$14^h\ 28^m$		$+30°\ 39'$		$14^h\ 29^m$		$+38°\ 35'$	
Jan. 1	47.699	403	40.17	239	52.559	428	31.46	245	53.523	346	53.04	249	19.987	364	60.03	252
11	48.102	417	37.78	187	52.987	449	29.01	190	53.869	357	50.55	211	20.351	379	57.51	208
21	48.519	418	35.91	130	53.436	454	27.11	131	54.226	359	48.44	165	20.730	381	55.43	156
31	48.937	406	34.61	70	53.890	444	25.80	68	54.585	349	46.79	115	21.111	373	53.87	101
Feb. 10	49.343	382	33.91	8	54.334	422	25.12	4	54.934	331	45.64	63	21.484	354	52.86	42
20	49.725	349	33.83	52	54.756	388	25.08	59	55.265	306	45.01	9	21.838	328	52.44	15
März 1	50.074	308	34.35	107	55.144	345	25.67	118	55.571	275	44.92	42	22.166	293	52.59	70
11	50.382	261	35.42	157	55.489	294	26.85	169	55.846	239	45.34	89	22.459	254	53.29	120
21	50.643	211	36.99	199	55.783	238	28.54	211	56.085	201	46.23	131	22.713	213	54.49	163
31	50.854	159	38.98	230	56.021	180	30.65	245	56.286	163	47.54	164	22.926	169	56.12	198
Apr. 10	51.013	108	41.28	252	56.201	122	33.10	268	56.449	125	49.18	189	23.095	126	58.10	223
20	51.121	58	43.80	263	56.323	65	35.78	279	56.574	87	51.07	207	23.221	84	60.33	239
29	51.179	10	46.43	264	56.388	10	38.57	280	56.661	51	53.14	215	23.305	42	62.72	245
Mai 9	51.189	33	49.07	256	56.398	42	41.37	271	56.712	17	55.29	214	23.347	3	65.17	242
19	51.156	74	51.63	239	56.356	90	44.08	253	56.729	16	57.43	207	23.350	33	67.59	232
29	51.082	110	54.02	214	56.266	133	46.61	227	56.713	46	59.50	193	23.317	67	69.91	212
Juni 8	50.972	143	56.16	182	56.133	171	48.88	193	56.667	75	61.43	172	23.250	98	72.03	186
18	50.829	171	57.98	147	55.962	204	50.81	156	56.592	99	63.15	146	23.152	125	73.89	157
28	50.658	193	59.45	106	55.758	232	52.37	112	56.493	121	64.61	117	23.027	149	75.46	123
Juli 8	50.465	211	60.51	63	55.526	253	53.49	67	56.372	140	65.78	85	22.878	169	76.69	84
18	50.254	223	61.14	19	55.273	267	54.16	20	56.232	155	66.63	50	22.709	184	77.53	44
28	50.031	228	61.33	27	55.006	275	54.36	29	56.077	165	67.13	14	22.525	193	77.97	3
Aug. 7	49.803	228	61.06	73	54.731	274	54.07	77	55.912	168	67.27	23	22.332	196	78.00	39
17	49.575	219	60.33	117	54.457	266	53.30	125	55.744	165	67.04	60	22.136	192	77.61	81
27	49.356	202	59.16	160	54.191	248	52.05	170	55.579	156	66.44	98	21.944	182	76.80	123
Sept. 6	49.154	178	57.56	202	53.943	222	50.35	213	55.423	138	65.46	134	21.762	162	75.57	162
16	48.976	144	55.54	239	53.721	185	48.22	252	55.285	113	64.12	169	21.600	134	73.95	200
26	48.832	102	53.15	274	53.536	140	45.70	288	55.172	80	62.43	202	21.466	98	71.95	235
Okt. 6	48.730	52	50.41	303	53.396	86	42.82	319	55.092	39	60.41	233	21.368	55	69.60	266
16	48.678	3	47.38	327	53.310	25	39.63	343	55.053	7	58.08	260	21.313	5	66.94	294
26	48.681	64	44.11	346	53.285	42	36.20	361	55.060	59	55.48	283	21.308	50	64.00	315
Nov. 5	48.745	128	40.65	355	53.327	112	32.59	370	55.119	112	52.65	300	21.358	108	60.85	331
15	48.873	191	37.10	357	53.439	182	28.89	372	55.231	166	49.65	311	21.466	166	57.54	337
25	49.064	251	33.53	349	53.621	250	25.17	362	55.397	217	46.54	313	21.632	221	54.17	336
Dez. 5	49.315	305	30.04	330	53.871	312	21.55	342	55.614	263	43.41	307	21.853	272	50.81	325
15	49.620	351	26.74	303	54.183	365	18.13	312	55.877	301	40.34	292	22.125	314	47.56	305
25	49.971	385	23.71	265	54.548	407	15.01	272	56.178	331	37.42	267	22.439	347	44.51	274
35	50.356		21.06		54.955		12.29		56.509		34.75		22.786		41.77	
Mittl. Ort	48.003		59.41		52.948		51.81		53.987		68.69		20.437		77.62	
sec δ, tg δ	1.450		+1.050		1.630		+1.287		1.163		+0.593		1.280		+0.798	
a, *a'*	+2.3		−16.7		+2.1		−16.3		+2.6		−16.0		+2.4		−15.9	
b, *b'*	−0.06		+ 0.55		−0.07		+ 0.58		−0.03		+ 0.60		−0.04		+ 0.61	

Tag	537) η Centauri AR.	Δ	Dekl.	Δ	538) α Centauri [1]) AR.	Δ	Dekl.	Δ	543) ζ Bootis med. AR.	Δ	Dekl.	Δ	542) α Apodis AR.	Δ	Dekl.	Δ
1932	14h 31m s		−41° 51′ ″		14h 34m s		−60° 33′ ″		14h 37m s		+14° 0′ ″		14h 39m s		−78° 45′ ″	
Jan. 1	9.529	421	31.21	89	56.20	58	11.62	32	53.457	323	57.25	234	13.44	130	18.89	39
11	9.950	429	32.10	122	56.78	59	11.94	79	53.780	334	54.91	211	14.74	136	18.50	17
21	10.379	426	33.32	151	57.37	59	12.73	124	54.114	334	52.80	181	16.10	137	18.67	73
31	10.805	413	34.83	176	57.96	57	13.97	165	54.448	326	50.99	146	17.47	135	19.40	126
Feb. 10	11.218	391	36.59	195	58.53	54	15.62	201	54.774	310	49.53	107	18.82	130	20.66	175
20	11.609	363	38.54	208	59.07	50	17.63	230	55.084	288	48.46	65	20.12	121	22.41	218
März 1	11.972	330	40.62	216	59.57	45	19.93	253	55.372	261	47.81	24	21.33	112	24.59	256
11	12.302	295	42.78	220	60.02	40	22.46	271	55.633	231	47.57	15	22.45	100	27.15	287
21	12.597	256	44.98	220	60.42	34	25.17	282	55.864	199	47.72	51	23.45	86	30.02	311
31	12.853	218	47.18	216	60.76	29	27.99	287	56.063	168	48.23	82	24.31	72	33.13	329
Apr. 10	13.071	180	49.34	208	61.05	22	30.86	288	56.231	136	49.05	108	25.03	56	36.42	339
20	13.251	141	51.42	198	61.27	16	33.74	282	56.367	105	50.13	126	25.59	40	39.81	344
30	13.392	103	53.40	185	61.43	10	36.56	272	56.472	74	51.39	139	25.99	23	43.25	340
Mai 9	13.495	64	55.25	169	61.53	4	39.28	256	56.546	44	52.78	145	26.22	6	46.65	329
19	13.559	26	56.94	150	61.57	3	41.84	235	56.590	16	54.23	146	26.28	10	49.94	311
29	13.585	12	58.44	130	61.54	8	44.19	209	56.606	11	55.69	140	26.18	27	53.05	287
Juni 8	13.573	48	59.74	106	61.46	14	46.28	179	56.595	37	57.09	131	25.91	42	55.92	256
18	13.525	82	60.80	81	61.32	19	48.07	145	56.558	61	58.40	117	25.49	57	58.48	219
28	13.443	114	61.61	53	61.13	23	49.52	106	56.497	84	59.57	101	24.92	69	60.67	175
Juli 8	13.329	140	62.14	24	60.90	28	50.58	66	56.413	103	60.58	82	24.23	79	62.42	128
18	13.189	163	62.38	6	60.62	31	51.24	23	56.310	119	61.40	60	23.44	87	63.70	77
28	13.026	178	62.32	36	60.31	33	51.47	21	56.191	131	62.00	37	22.57	92	64.47	23
Aug. 7	12.848	185	61.96	64	59.98	33	51.26	64	56.060	137	62.37	13	21.65	93	64.70	32
17	12.663	183	61.32	92	59.65	32	50.62	106	55.923	138	62.50	12	20.72	91	64.38	86
27	12.480	171	60.40	116	59.33	30	49.56	145	55.785	131	62.38	39	19.81	86	63.52	137
Sept. 6	12.309	148	59.24	135	59.03	26	48.11	178	55.654	117	61.99	65	18.95	76	62.15	184
16	12.161	114	57.89	149	58.77	21	46.33	205	55.537	94	61.34	93	18.19	62	60.31	224
26	12.047	71	56.40	156	58.56	14	44.28	224	55.443	65	60.41	121	17.57	46	58.07	257
Okt. 6	11.976	18	54.84	156	58.42	6	42.04	234	55.378	28	59.20	148	17.11	26	55.50	279
16	11.958	41	53.28	149	58.36	3	39.70	234	55.350	14	57.72	174	16.85	5	52.71	290
26	11.999	105	51.79	133	58.39	13	37.36	225	55.364	62	55.98	198	16.80	17	49.81	291
Nov. 5	12.104	171	50.46	111	58.52	22	35.11	205	55.426	112	54.00	220	16.97	40	46.90	279
15	12.275	234	49.35	82	58.74	31	33.06	176	55.538	161	51.80	237	17.37	62	44.11	255
25	12.509	291	48.53	48	59.05	39	31.30	140	55.699	208	49.43	249	17.99	83	41.56	221
Dez. 5	12.800	342	48.05	12	59.44	47	29.90	97	55.907	250	46.94	254	18.82	100	39.35	179
15	13.142	382	47.93	26	59.91	52	28.93	50	56.157	284	44.40	252	19.82	115	37.56	130
25	13.524	410	48.19	64	60.43	57	28.43	1	56.441	311	41.88	242	20.97	127	36.26	77
35	13.934		48.83		61.00		28.42		56.752		39.46		22.24		35.49	
Mittl. Ort	10.793		36.76		58.25		21.04		54.042		68.40		19.19		30.21	
sec δ, tg δ	1.343		−0.896		2.034		−1.772		1.031		+0.249		5.130		−5.031	
a, a′	+3.8		−15.8		+4.6		−15.6		+2.9		−15.5		+7.4		−15.4	
b, b′	+0.05		+ 0.61		+0.09		+ 0.63		−0.01		+ 0.64		+0.26		+ 0.64	

[1]) Ort des hellen Sterns; die jährliche Parallaxe (0.″75) ist bereits berücksichtigt.

Scheinbare Sternörter 1932

Tag	545) μ Virginis				547) 109 Virginis				548) α Librae				549) Grb 2164			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	14h 39m		−5° 21′		14h 42m		+2° 10′		14h 47m		−15° 45′		14h 49m		+59° 33′	
	s		″		s		″		s		″		s		″	
Jan. 1	27.699	327	54.42	193	47.871	321	34.21	210	5.873	336	39.58	159	41.929	462	49.57	262
11	28.026	335	56.35	190	48.192	330	32.11	199	6.209	345	41.17	167	42.391	497	46.95	209
21	28.361	335	58.25	181	48.522	331	30.12	182	6.554	346	42.84	170	42.888	515	44.86	147
31	28.696	326	60.06	166	48.853	323	28.30	159	6.900	338	44.54	166	43.403	517	43.39	81
Feb. 10	29.022	309	61.72	145	49.176	307	26.71	131	7.238	323	46.20	157	43.920	502	42.58	15
20	29.331	288	63.17	123	49.483	286	25.40	100	7.561	301	47.77	145	44.422	472	42.43	51
März 1	29.619	262	64.40	97	49.769	261	24.40	69	7.862	276	49.22	130	44.894	428	42.94	114
11	29.881	235	65.37	72	50.030	234	23.71	37	8.138	248	50.52	113	45.322	374	44.08	170
21	30.116	204	66.09	46	50.264	204	23.34	7	8.386	220	51.65	94	45.696	313	45.78	217
31	30.320	175	66.55	22	50.468	174	23.27	20	8.606	190	52.59	76	46.009	246	47.95	256
Apr. 10	30.495	146	66.77	2	50.642	144	23.47	42	8.796	161	53.35	59	46.255	175	50.51	282
20	30.641	117	66.79	15	50.786	115	23.89	62	8.957	131	53.94	44	46.430	104	53.33	299
30	30.758	88	66.64	30	50.901	86	24.51	75	9.088	102	54.38	30	46.534	34	56.32	303
Mai 9	[2] 30.846	60	66.34	40	[3] 50.987	58	25.26	84	[4] 9.190	73	54.68	18	[4] 46.568	33	59.35	296
19	30.906	32	65.94	49	51.045	30	26.10	90	9.263	44	54.86	7	46.535	97	62.31	281
29	30.938	6	65.45	54	51.075	4	27.00	92	9.307	15	54.93	3	46.438	155	65.12	256
Juni 8	30.944	20	64.91	56	51.079	22	27.92	89	9.322	13	54.90	11	46.283	209	67.68	224
18	30.924	45	64.35	57	51.057	47	28.81	84	9.309	40	54.79	19	46.074	255	69.92	186
28	30.879	68	63.78	56	51.010	71	29.65	77	9.269	66	54.60	26	45.819	295	71.78	142
Juli 8	30.811	88	63.22	54	50.939	90	30.42	67	9.203	88	54.34	33	45.524	327	73.20	94
18	30.723	106	62.68	50	50.849	108	31.09	57	9.115	109	54.01	38	45.197	351	74.14	45
28	30.617	119	62.18	45	50.741	121	31.66	45	9.006	123	53.63	43	44.846	366	74.59	5
Aug. 7	30.498	127	61.73	39	50.620	129	32.11	31	8.883	132	53.20	47	44.480	372	74.54	57
17	30.371	127	61.34	31	50.491	130	32.42	16	8.751	135	52.73	49	44.108	366	73.97	107
27	30.244	122	61.03	21	50.361	125	32.58	1	8.616	129	52.24	49	43.742	351	72.90	156
Sept. 6	30.122	107	60.82	9	50.236	112	32.57	18	8.487	115	51.75	46	43.391	324	71.34	202
16	30.015	86	60.73	6	50.124	90	32.39	38	8.372	94	51.29	41	43.067	285	69.32	246
26	29.929	55	60.79	22	50.034	61	32.01	60	8.278	62	50.88	31	42.782	236	66.86	284
Okt. 6	29.874	18	61.01	41	49.973	25	31.41	83	8.216	24	50.57	18	42.546	176	64.02	319
16	29.856	26	61.42	63	49.948	18	30.58	106	8.192	21	50.39	1	42.370	107	60.83	346
26	29.882	73	62.05	85	49.966	65	29.52	129	8.213	71	50.38	19	42.263	29	57.37	367
Nov. 5	29.955	122	62.90	109	50.031	113	28.23	152	8.284	123	50.57	42	42.234	54	53.70	380
15	30.077	172	63.99	132	50.144	163	26.71	173	8.407	173	50.99	66	42.288	138	49.90	383
25	30.249	217	65.31	152	50.307	209	24.98	191	8.580	222	51.65	90	42.426	221	46.07	375
Dez. 5	30.466	259	66.83	170	50.516	250	23.07	203	8.802	264	52.55	113	42.647	300	42.32	357
15	30.725	292	68.53	182	50.766	283	21.04	211	9.066	299	53.68	133	42.947	371	38.75	330
25	31.017	316	70.35	190	51.049	309	18.93	211	9.365	325	55.01	150	43.318	430	35.45	290
35	31.333		72.25		51.358		16.82		9.690		56.51		43.748		32.55	
Mittl. Ort	28.423		49.09		48.552		41.94		6.739		37.10		42.683		70.84	
sec δ, tg δ	1.004		−0.094		1.001		+0.038		1.039		−0.282		1.974		+1.702	
a, a′	+3.2		−15.4		+3.0		−15.2		+3.3		−14.9		+1.5		−14.8	
b, b′	0.00		+ 0.64		0.00		+ 0.65		+0.01		+ 0.67		−0.08		+ 0.67	

Tag	550) β Ursae min. AR.	Diff.	Dekl.	Diff.	551) Pi XIV, 221 AR.	Diff.	Dekl.	Diff.
1932	14ʰ 50ᵐ		+74° 25′		14ʰ 52ᵐ		+14° 42′	
Jan. 1	51.70	75	37.58	246	59.929	317	60.28	237
11	52.45	83	35.12	188	60.246	329	57.91	214
21	53.28	87	33.24	124	60.575	332	55.77	185
31	54.15	89	32.00	56	60.907	328	53.92	149
Feb. 10	55.04	87	31.44	12	61.235	314	52.43	109
20	55.91	82	31.56	78	61.549	294	51.34	67
März 1	56.73	74	32.34	141	61.843	270	50.67	25
11	57.47	64	33.75	196	62.113	243	50.42	16
21	58.11	53	35.71	241	62.356	212	50.58	53
31	58.64	39	38.12	277	62.568	181	51.11	86
Apr. 10	59.03	26	40.89	301	62.749	150	51.97	112
20	59.29	11	43.90	313	62.899	119	53.09	133
30	59.40	2	47.03	313	63.018	88	54.42	146
Mai 9	5 59.38	16	50.16	303	5 63.106	58	55.88	153
19	59.22	29	53.19	283	63.164	29	57.41	154
29	58.93	41	56.02	254	63.193	1	58.95	150
Juni 8	58.52	51	58.56	217	63.192	28	60.45	140
18	58.01	59	60.73	175	63.164	54	61.85	127
28	57.42	67	62.48	127	63.110	79	63.12	110
Juli 8	56.75	73	63.75	77	63.031	100	64.22	89
18	56.02	76	64.52	24	62.931	119	65.11	68
28	55.26	78	64.76	29	62.812	132	65.79	44
Aug. 7	54.48	79	64.47	82	62.680	142	66.23	19
17	53.69	77	63.65	133	62.538	145	66.42	7
27	52.92	73	62.32	183	62.393	140	66.35	34
Sept. 6	52.19	69	60.49	228	62.253	128	66.01	62
16	51.50	61	58.21	271	62.125	107	65.39	90
26	50.89	51	55.50	308	62.018	79	64.49	119
Okt. 6	50.38	41	52.42	340	61.939	44	63.30	147
16	49.97	29	49.02	364	61.895	1	61.83	173
26	49.68	15	45.38	380	61.894	45	60.10	198
Nov. 5	49.53	0	41.58	389	61.939	95	58.12	220
15	49.53	15	37.69	388	62.034	146	55.92	238
25	49.68	29	33.81	375	62.180	193	53.54	250
Dez. 5	49.97	44	30.06	353	62.373	237	51.04	256
15	50.41	58	26.53	319	62.610	273	48.48	255
25	50.99	69	23.34	276	62.883	303	45.93	245
35	51.68		20.58		63.186		43.48	
Mittl. Ort	53.02		60.22		60.596		71.88	
sec δ, tg δ	3.726		+3.590		1.034		+0.263	
a, *a′*	−0.2		−14.7		+2.8		−14.6	
b, *b′*	−0.18		+ 0.68		−0.01		+ 0.69	

Tag	552) β Lupi AR.	Diff.	Dekl.	Diff.	555) β Bootis AR.	Diff.	Dekl.	Diff.
1932	14ʰ 54ᵐ		−42° 51′		14ʰ 59ᵐ		+40° 38′	
Jan. 1	2.631	417	36.81	61	22.384	349	70.18	273
11	3.048	432	37.42	94	22.733	371	67.45	230
21	3.480	434	38.36	124	23.104	382	65.15	179
31	3.914	426	39.60	149	23.486	381	63.36	123
Feb. 10	4.340	409	41.09	170	23.867	370	62.13	63
20	4.749	385	42.79	186	24.237	349	61.50	3
März 1	5.134	355	44.65	197	24.586	320	61.47	55
11	5.489	323	46.62	204	24.906	285	62.02	109
21	5.812	288	48.66	207	25.191	247	63.11	157
31	6.100	251	50.73	206	25.438	205	64.68	197
Apr. 10	6.351	213	52.79	202	25.643	162	66.65	227
20	6.564	175	54.81	195	25.805	119	68.92	248
30	6.739	135	56.76	185	25.924	75	71.40	258
Mai 9	5 6.874	95	58.61	173	7 25.999	33	73.98	261
19	6.969	55	60.34	158	26.032	8	76.59	252
29	7.024	14	61.92	140	26.024	46	79.11	237
Juni 8	7.038	25	63.32	119	25.978	82	81.48	214
18	7.013	64	64.51	96	25.896	115	83.62	185
28	6.949	100	65.47	71	25.781	146	85.47	152
Juli 8	6.849	131	66.18	43	25.635	171	86.99	114
18	6.718	159	66.61	14	25.464	192	88.13	73
28	6.559	180	66.75	16	25.272	207	88.86	30
Aug. 7	6.379	192	66.59	45	25.065	217	89.16	13
17	6.187	195	66.14	73	24.848	218	89.03	57
27	5.992	187	65.41	100	24.630	212	88.46	101
Sept. 6	5.805	169	64.41	122	24.418	196	87.45	143
16	5.636	138	63.19	139	24.222	173	86.02	184
26	5.498	97	61.80	151	24.049	139	84.18	222
Okt. 6	5.401	47	60.29	155	23.910	98	81.96	258
16	5.354	12	58.74	153	23.812	49	79.38	288
26	5.366	77	57.21	142	23.763	6	76.50	313
Nov. 5	5.443	144	55.79	123	23.769	66	73.37	333
15	5.587	209	54.56	100	23.835	126	70.04	344
25	5.796	271	53.56	70	23.961	185	66.60	345
Dez. 5	6.067	325	52.86	36	24.146	240	63.15	338
15	6.392	370	52.50	0	24.386	289	59.77	321
25	6.762	403	52.50	36	24.675	328	56.56	293
35	7.165		52.86		25.003		53.63	
Mittl. Ort	4.045		41.24		23.073		88.14	
sec δ, tg δ	1.364		−0.928		1.318		+0.859	
a, *a′*	+3.9		−14.5		+2.3		−14.2	
b, *b′*	+0.04		+ 0.69		−0.04		+ 0.71	

Scheinbare Sternörter 1932

Tag	556) γ Scorpii				557) ψ Bootis				558) ζ Lupi				560) γ Triang. austr.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$15^h\ 0^m$		$-25°\ 0'$		$15^h\ 1^m$		$+27°\ 12'$		$15^h\ 7^m$		$-51°\ 50'$		$15^h\ 12^m$		$-68°\ 25'$	
Jan. 1	4.030	349	58.07	119	31.209	321	27.48	261	21.367	472	25.02	12	28.76	72	41.04	55
11	4.379	362	59.26	137	31.530	338	24.87	227	21.839	492	25.14	51	29.48	76	40.49	5
21	4.741	364	60.63	149	31.868	345	22.60	187	22.331	499	25.65	89	30.24	78	40.44	43
31	5.105	358	62.12	156	32.213	343	20.73	141	22.830	494	26.54	123	31.02	78	40.87	90
Feb. 10	5.463	344	63.68	158	32.556	332	19.32	90	23.324	479	27.77	153	31.80	76	41.77	134
20	5.807	325	65.26	155	32.888	313	18.42	38	23.803	456	29.30	178	32.56	72	43.11	173
März 1	6.132	300	66.81	150	33.201	288	18.04	14	24.259	425	31.08	198	33.28	68	44.84	208
11	6.432	273	68.31	141	33.489	259	18.18	62	24.684	390	33.06	214	33.96	63	46.92	236
21	6.705	245	69.72	130	33.748	227	18.80	105	25.074	350	35.20	225	34.59	57	49.28	260
31	6.950	215	71.02	119	33.975	193	19.85	143	25.424	309	37.45	232	35.16	49	51.88	278
April 10	7.165	185	72.21	106	34.168	158	21.28	173	25.733	265	39.77	234	35.65	42	54.66	289
20	7.350	154	73.27	94	34.326	122	23.01	194	25.998	219	42.11	233	36.07	34	57.55	296
30	7.504	123	74.21	82	34.448	88	24.95	208	26.217	171	44.44	227	36.41	26	60.51	297
Mai 9*)	[7] 7.627	91	75.03	70	[7] 34.536	54	27.03	213	[9] 26.388	123	46.71	218	[10] 36.67	16	63.48	291
19	7.718	60	75.73	59	34.590	20	29.16	210	26.511	73	48.89	205	36.83	8	66.39	280
29	7.778	28	76.32	46	34.610	13	31.26	200	26.584	22	50.94	187	36.91	1	69.19	262
Juni 8	7.806	4	76.78	34	34.597	43	33.26	185	26.606	28	52.81	166	36.90	10	71.81	238
18	7.802	34	77.12	21	34.554	72	35.11	164	26.578	75	54.47	141	36.80	18	74.19	210
28	7.768	64	77.33	8	34.482	99	36.75	138	26.503	121	55.88	112	36.62	25	76.29	174
Juli 8	7.704	91	77.41	5	34.383	124	38.13	109	26.382	163	57.00	80	36.37	33	78.03	135
18	7.613	114	77.36	19	34.259	143	39.22	77	26.219	197	57.80	46	36.04	39	79.38	91
28	7.499	132	77.17	32	34.116	159	39.99	44	26.022	223	58.26	9	35.65	43	80.29	45
Aug. 7	7.367	144	76.85	45	33.957	168	40.43	8	25.799	241	58.35	27	35.22	46	80.74	4
17	7.223	149	76.40	56	33.789	172	40.51	28	25.558	247	58.08	63	34.76	46	80.70	52
27	7.074	145	75.84	66	33.617	167	40.23	64	25.311	241	57.45	98	34.30	45	80.18	99
Sept. 6	6.929	132	75.18	72	33.450	155	39.59	100	25.070	220	56.47	129	33.85	41	79.19	144
16	6.797	110	74.46	75	33.295	135	38.59	135	24.850	187	55.18	156	33.44	36	77.75	183
26	6.687	78	73.71	73	33.160	106	37.24	170	24.663	140	53.62	175	33.08	28	75.92	215
Okt. 6	6.609	37	72.98	66	33.054	69	35.54	202	24.523	82	51.87	188	32.80	19	73.77	240
16	6.572	10	72.32	56	32.985	26	33.52	232	24.441	14	49.99	193	32.61	8	71.37	255
26	6.582	62	71.76	40	32.959	23	31.20	258	24.427	61	48.06	189	32.53	5	68.82	259
Nov. 5	6.644	117	71.36	19	32.982	76	28.62	279	24.488	139	46.17	176	32.58	17	66.23	252
15	6.761	171	71.17	4	33.058	130	25.83	294	24.627	216	44.41	155	32.75	30	63.71	236
25	6.932	223	71.21	30	33.188	181	22.89	303	24.843	289	42.86	127	33.05	41	61.35	210
Dez. 5	7.155	269	71.51	56	33.369	229	19.86	302	25.132	355	41.59	93	33.46	52	59.25	175
15	7.424	308	72.07	82	33.598	271	16.84	293	25.487	410	40.66	55	33.98	61	57.50	133
25	7.732	336	72.89	105	33.869	303	13.91	275	25.897	452	40.11	16	34.59	69	56.17	87
35	8.068		73.94		34.172		11.16		26.349		39.95		35.28		55.30	
Mittl. Ort	5.081		57.63		31.895		42.42		23.192		30.49		32.03		48.77	
sec δ, tg δ	1.104		−0.467		1.124		+0.514		1.619		−1.273		2.720		−2.530	
a, *a'*	+3.5		−14.2		+2.6		−14.1		+4.3		−13.7		+5.6		−13.4	
b, *b'*	+0.02		+ 0.71		−0.02		+ 0.71		+0.06		+ 0.73		+0.11		+ 0.74	

*) Bei Stern 560) lies Mai 10

Tag	563) δ Bootis AR.		563) δ Bootis Dekl.		564) β Librae AR.		564) β Librae Dekl.		565) 1 H. Ursae min. AR.		565) 1 H. Ursae min. Dekl.		566) φ¹ Lupi AR.		566) φ¹ Lupi Dekl.	
1932	15h 12m		+33° 33′		15h 13m		−9° 7′		15h 13m		+67° 35′		15h 17m		−36° 0′	
Jan. 1	44.916	323	46.74	274	19.771	316	64.98	168	49.70	53	55.11	279	27.688	375	56.49	63
11	45.239	345	44.00	238	20.087	330	66.66	169	50.23	59	52.32	225	28.063	392	57.12	90
21	45.584	356	41.62	192	20.417	334	68.35	165	50.82	63	50.07	165	28.455	398	58.02	112
31	45.940	357	39.70	141	20.751	332	70.00	155	51.45	65	48.42	99	28.853	396	59.14	131
Feb. 10	46.297	349	38.29	87	21.083	321	71.55	139	52.10	64	47.43	31	29.249	385	60.45	145
20	46.646	331	37.42	30	21.404	304	72.94	121	52.74	62	47.12	37	29.634	367	61.90	155
März 1	46.977	308	37.12	26	21.708	284	74.15	99	53.36	57	47.49	103	30.001	344	63.45	161
11	47.285	278	37.38	78	21.992	261	75.14	76	53.93	51	48.52	162	30.345	317	65.06	163
21	47.563	245	38.16	126	22.253	234	75.90	54	54.44	44	50.14	213	30.662	288	66.69	163
31	47.808	209	39.42	166	22.487	208	76.44	33	54.88	35	52.27	255	30.950	257	68.32	160
Apr. 10	48.017	172	41.08	198	22.695	180	76.77	14	55.23	26	54.82	286	31.207	224	69.92	155
20	48.189	135	43.06	221	22.875	152	76.91	3	55.49	16	57.68	306	31.431	191	71.47	148
30	48.324	96	45.27	236	23.027	123	76.88	17	55.65	6	60.74	314	31.622	156	72.95	141
Mai 10	48.420	58	47.63	241	23.150	95	76.71	28	55.71	3	63.88	311	31.778	119	74.36	131
19	48.478	21	50.04	237	23.245	65	76.43	35	55.68	11	66.99	298	31.897	83	75.67	119
29	48.499	14	52.41	227	23.310	35	76.08	41	55.57	20	69.97	276	31.980	45	76.86	106
Juni 8	48.485	49	54.68	208	23.345	6	75.67	45	55.37	29	72.73	244	32.025	8	77.92	92
18	48.436	81	56.76	185	23.351	23	75.22	47	55.08	35	75.17	207	32.033	30	78.84	75
28	48.355	111	58.61	156	23.328	51	74.75	47	54.73	41	77.24	165	32.003	66	79.59	56
Juli 8	48.244	138	60.17	123	23.277	77	74.28	47	54.32	47	78.89	117	31.937	99	80.15	36
18	48.106	161	61.40	87	23.200	99	73.81	46	53.85	50	80.06	67	31.838	128	80.51	15
28	47.945	178	62.27	49	23.101	118	73.35	43	53.35	52	80.73	15	31.710	152	80.66	8
Aug. 7	47.767	189	62.76	10	22.983	131	72.92	40	52.83	54	80.88	38	31.558	168	80.58	31
17	47.578	195	62.86	30	22.852	138	72.52	35	52.29	54	80.50	90	31.390	176	80.27	53
27	47.383	191	62.56	71	22.714	137	72.17	30	51.75	53	79.60	141	31.214	175	79.74	73
Sept. 6	47.192	180	61.85	111	22.577	128	71.87	21	51.22	49	78.19	189	31.039	162	79.01	91
16	47.012	160	60.74	151	22.449	110	71.66	11	50.73	45	76.30	235	30.877	140	78.10	104
26	46.852	132	59.23	187	22.339	82	71.55	1	50.28	40	73.95	277	30.737	107	77.06	114
Okt. 6	46.720	93	57.36	222	22.257	48	71.56	17	49.88	32	71.18	313	30.630	63	75.92	117
16	46.627	49	55.14	255	22.209	6	71.73	35	49.56	23	68.05	344	30.567	11	74.75	114
26	46.578	1	52.59	281	22.203	41	72.08	55	49.33	14	64.61	367	30.556	47	73.61	106
Nov. 5	46.579	57	49.78	303	22.244	92	72.63	76	49.19	3	60.94	383	30.603	107	72.55	90
15	46.636	113	46.75	318	22.336	142	73.39	98	49.16	7	57.11	388	30.710	168	71.65	70
25	46.749	168	43.57	325	22.478	190	74.37	118	49.23	19	53.23	385	30.878	227	70.95	44
Dez. 5	46.917	220	40.32	323	22.668	235	75.55	137	49.42	30	49.38	369	31.105	279	70.51	16
15	47.137	266	37.09	312	22.903	273	76.92	152	49.72	39	45.69	342	31.384	324	70.35	13
25	47.403	303	33.97	290	23.176	301	78.44	162	50.11	48	42.27	305	31.708	358	70.48	43
35	47.706		31.07		23.477		80.06		50.59		39.22		32.066		70.91	
Mittl. Ort	45.681		63.12		20.687		59.62		51.04		76.71		29.026		57.92	
sec δ, tg δ	1.200		+0.664		1.013		−0.161		2.625		+2.427		1.236		−0.727	
a, a'	+2.4		−13.4		+3.2		−13.3		+0.6		−13.3		+3.8		−13.1	
b, b'	−0.03		+ 0.75		+0.01		+ 0.75		−0.11		+ 0.75		+0.03		+ 0.76	

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Tag	569) γ Ursae min. AR.		Dekl.		568) μ Bootis AR.		Dekl.		571) ι Draconis AR.		Dekl.		572) β Coron. bor. AR.		Dekl.	
1932	15h 20m		+72° 3′		15h 21m		+37° 36′		15h 23m		+59° 11′		15h 25m		+29° 19′	
Jan. 1	47.53	61	71.70	279	54.422	323	35.88	282	23.708	417	52.94	292	0.683	307	65.27	272
11	48.14	69	68.91	226	54.745	349	33.06	244	24.125	461	50.02	242	0.990	330	62.55	240
21	48.83	74	66.65	165	55.094	364	30.62	197	24.586	492	47.60	186	1.320	342	60.15	199
31	49.57	77	65.00	100	55.458	367	28.65	144	25.078	505	45.74	122	1.662	345	58.16	152
Feb. 10	50.34	78	64.00	32	55.825	360	27.21	87	25.583	502	44.52	54	2.007	339	56.64	100
20	51.12	75	63.68	38	56.185	346	26.34	28	26.085	484	43.98	13	2.346	324	55.64	47
März 1	51.87	69	64.06	103	56.531	322	26.06	31	26.569	453	44.11	77	2.670	303	55.17	8
11	52.56	63	65.09	162	56.853	294	26.37	86	27.022	409	44.88	138	2.973	278	55.25	59
21	53.19	53	66.71	214	57.147	260	27.23	136	27.431	356	46.26	192	3.251	248	55.84	106
31	53.72	43	68.85	257	57.407	223	28.59	178	27.787	296	48.18	237	3.499	216	56.90	147
Apr. 10	54.15	32	71.42	289	57.630	185	30.37	213	28.083	231	50.55	271	3.715	182	58.37	180
20	54.47	20	74.31	308	57.815	144	32.50	237	28.314	163	53.26	295	3.897	147	60.17	205
30	54.67	7	77.39	318	57.959	103	34.87	252	28.477	94	56.21	307	4.044	111	62.22	221
Mai 10	54.74	4	80.57	315	58.062	63	37.39	259	28.571	25	59.28	308	4.155	75	64.43	229
19	[11] 54.70	16	83.72	302	[12] 58.125	23	39.98	255	[13] 28.596	41	62.36	300	[13] 4.230	40	66.72	228
29	54.54	27	86.74	280	58.148	15	42.53	244	28.555	104	65.36	281	4.270	5	69.00	220
Juni 8	54.27	37	89.54	250	58.133	53	44.97	225	28.451	164	68.17	255	4.275	30	71.20	206
18	53.90	46	92.04	213	58.080	89	47.22	200	28.287	218	70.72	221	4.245	62	73.26	185
28	53.44	53	94.17	169	57.991	121	49.22	170	28.069	266	72.93	182	4.183	93	75.11	160
Juli 8	52.91	59	95.86	122	57.870	150	50.92	135	27.803	307	74.75	138	4.090	120	76.71	130
18	52.32	65	97.08	72	57.720	175	52.27	97	27.496	340	76.13	90	3.970	144	78.01	97
28	51.67	68	97.80	20	57.545	194	53.24	56	27.156	365	77.03	41	3.826	164	78.98	62
Aug. 7	50.99	69	98.00	33	57.351	207	53.80	15	26.791	380	77.44	11	3.662	178	79.60	26
17	50.30	70	97.67	85	57.144	214	53.95	28	26.411	385	77.33	62	3.484	185	79.86	12
27	49.60	68	96.82	137	56.930	212	53.67	71	26.026	379	76.71	112	3.299	185	79.74	51
Sept. 6	48.92	65	95.45	186	56.718	202	52.96	113	25.647	361	75.59	161	3.114	176	79.23	89
16	48.27	59	93.59	232	56.516	182	51.83	155	25.286	330	73.98	207	2.938	159	78.34	126
26	47.68	53	91.27	273	56.334	153	50.28	195	24.956	288	71.91	251	2.779	132	77.08	163
Okt. 6	47.15	44	88.54	310	56.181	115	48.33	231	24.668	234	69.40	290	2.647	97	75.45	197
16	46.71	33	85.44	341	56.066	70	46.02	264	24.434	170	66.50	324	2.550	55	73.48	230
26	46.38	22	82.03	365	55.996	18	43.38	292	24.264	96	63.26	350	2.495	6	71.18	258
Nov. 5	46.16	10	78.38	380	55.978	39	40.46	314	24.168	15	59.76	369	2.489	46	68.60	281
15	46.06	4	74.58	387	56.017	98	37.32	330	24.153	70	56.07	380	2.535	101	65.79	298
25	46.10	18	70.71	383	56.115	156	34.02	338	24.223	154	52.27	380	2.636	155	62.81	309
Dez. 5	46.28	31	66.88	367	56.271	211	30.64	335	24.377	237	48.47	370	2.791	205	59.72	310
15	46.59	43	63.21	342	56.482	260	27.29	322	24.614	313	44.77	348	2.996	250	56.62	302
25	47.02	55	59.79	305	56.742	301	24.07	299	24.927	378	41.29	315	3.246	288	53.60	286
35	47.57		56.74		57.043		21.08		25.305		38.14		3.534		50.74	
Mittl. Ort	49.32		93.41		55.266		53.02		24.869		73.44		1.517		80.65	
sec δ, tg δ	3.249		+3.092		1.262		+0.770		1.953		+1.678		1.147		+0.562	
a, *a′*	−0.1		−12.8		+2.3		−12.8		+1.3		−12.7		+2.5		−12.5	
b, *b′*	−0.13		+0.77		−0.03		+ 0.77		−0.07		+ 0.78		−0.02		+ 0.78	

Tag	573) ν^1 Bootis AR.	Δ	Dekl.	Δ	575) γ Lupi AR.	Δ	Dekl.	Δ
1932	$15^h 28^m$		$+41° 3'$		$15^h 30^m$		$-40° 56'$	
Jan. 1	28.267	326	32.60	290	34.503	388	21.23	30
11	28.593	355	29.70	250	34.891	410	21.53	59
21	28.948	372	27.20	202	35.301	420	22.12	86
31	29.320	378	25.18	147	35.721	420	22.98	110
Feb. 10	29.698	374	23.71	87	36.141	412	24.08	129
20	30.072	360	22.84	26	36.553	395	25.37	145
März 1	30.432	338	22.58	34	36.948	374	26.82	156
11	30.770	309	22.92	91	37.322	348	28.38	164
21	31.079	274	23.83	143	37.670	319	30.02	169
31	31.353	236	25.26	187	37.989	288	31.71	170
Apr. 10	31.589	196	27.13	222	38.277	254	33.41	170
20	31.785	153	29.35	249	38.531	218	35.11	167
30	31.938	110	31.84	264	38.749	181	36.78	162
Mai 10	32.048	66	34.48	271	38.930	142	38.40	155
19	[14] 32.114	24	37.19	268	[15] 39.072	102	39.95	145
29	32.138	18	39.87	256	39.174	61	41.40	133
Juni 8	32.120	57	42.43	237	39.235	18	42.73	119
18	32.063	96	44.80	211	39.253	23	43.92	102
28	31.967	131	46.91	179	39.230	64	44.94	81
Juli 8	31.836	162	48.70	144	39.166	102	45.75	60
18	31.674	188	50.14	103	39.064	135	46.35	36
28	31.486	210	51.17	62	38.929	162	46.71	9
Aug. 7	31.276	224	51.79	18	38.767	183	46.80	17
17	31.052	232	51.97	27	38.584	194	46.63	43
27	30.820	231	51.70	72	38.390	195	46.20	68
Sept. 6	30.589	221	50.98	116	38.195	185	45.52	92
16	30.368	201	49.82	159	38.010	162	44.60	111
26	30.167	172	48.23	200	37.848	128	43.49	125
Okt. 6	29.995	134	46.23	238	37.720	83	42.24	135
16	29.861	87	43.85	272	37.637	30	40.89	137
26	29.774	34	41.13	301	37.607	31	39.52	133
Nov. 5	29.740	25	38.12	325	37.638	95	38.19	121
15	29.765	86	34.87	340	37.733	161	36.98	103
25	29.851	147	31.47	347	37.894	223	35.95	81
Dez. 5	29.998	205	28.00	344	38.117	281	35.14	53
15	30.203	257	24.56	331	38.398	331	34.61	23
25	30.460	302	21.25	308	38.729	369	34.38	8
35	30.762		18.17		39.098		34.46	
Mittl. Ort	29.182		50.28		36.024		22.96	
sec δ, tg δ	1.326		+0.871		1.324		−0.867	
a, a'	+2.2		−12.3		+4.0		−12.2	
b, b'	−0.04		+ 0.79		+0.04		+ 0.79	

Tag	577) γ Librae AR.	Δ	Dekl.	Δ	578) α Coron. bor. AR.	Δ	Dekl.	Δ
1932	$15^h 31^m$		$-14° 33'$		$15^h 31^m$		$+26° 56'$	
Jan. 1	42.087	313	54.94	139	47.626	301	18.04	270
11	42.400	331	56.33	146	47.927	323	15.34	240
21	42.731	338	57.79	147	48.250	336	12.94	202
31	43.069	339	59.26	142	48.586	340	10.92	157
Feb. 10	43.408	331	60.68	133	48.926	335	9.35	107
20	43.739	317	62.01	121	49.261	321	8.28	55
März 1	44.056	300	63.22	105	49.582	303	7.73	3
11	44.356	278	64.27	88	49.885	279	7.70	48
21	44.634	254	65.15	70	50.164	251	8.18	95
31	44.888	229	65.85	52	50.415	220	9.13	135
Apr. 10	45.117	202	66.37	36	50.635	188	10.48	169
20	45.319	175	66.73	22	50.823	154	12.17	194
30	45.494	147	66.95	10	50.977	120	14.11	211
Mai 10	45.641	117	67.05	0	51.097	85	16.22	221
19	[15] 45.758	86	67.05	9	[15] 51.182	50	18.43	221
29	45.844	55	66.96	14	51.232	16	20.64	215
Juni 8	45.899	23	66.82	20	51.248	18	22.79	202
18	45.922	9	66.62	24	51.230	52	24.81	183
28	45.913	39	66.38	28	51.178	82	26.64	159
Juli 8	45.874	68	66.10	30	51.096	110	28.23	132
18	45.806	94	65.80	33	50.986	136	29.55	101
28	45.712	117	65.47	35	50.850	156	30.56	67
Aug. 7	45.595	133	65.12	36	50.694	171	31.23	32
17	45.462	143	64.76	37	50.523	179	31.55	3
27	45.319	146	64.39	36	50.344	180	31.52	41
Sept. 6	45.173	138	64.03	34	50.164	173	31.11	78
16	45.035	122	63.69	30	49.991	157	30.33	114
26	44.913	97	63.39	21	49.834	132	29.19	150
Okt. 6	44.816	62	63.18	11	49.702	98	27.69	184
16	44.754	21	63.07	2	49.604	57	25.85	216
26	44.733	26	63.09	19	49.547	10	23.69	245
Nov. 5	44.759	77	63.28	38	49.537	43	21.24	269
15	44.836	129	63.66	58	49.580	96	18.55	287
25	44.965	179	64.24	79	49.676	148	15.68	299
Dez. 5	45.144	226	65.03	98	49.824	199	12.69	302
15	45.370	266	66.01	116	50.023	243	9.67	297
25	45.636	298	67.17	131	50.266	281	6.70	281
35	45.934		68.48		50.547		3.89	
Mittl. Ort	43.132		50.37		48.495		32.87	
sec δ, tg δ	1.033		−0.260		1.122		+0.508	
a, a'	+3.3		−12.1		+2.5		−12.1	
b, b'	+0.01		+ 0.80		−0.02		+ 0.80	

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Tag	582) α Serpentis AR.		Dekl.		583) β Serpentis AR.		Dekl.	
1932	15h 40m		+6° 37′		15h 43m		+15° 37′	
Jan. 1	54.081	289	68.01	215	1.983	287	48.05	243
11	54.370	309	65.86	203	2.270	308	45.62	224
21	54.679	319	63.83	183	2.578	321	43.38	196
31	54.998	322	62.00	156	2.899	324	41.42	161
Feb. 10	55.320	317	60.44	125	3.223	320	39.81	121
20	55.637	306	59.19	90	3.543	310	38.60	78
März 1	55.943	290	58.29	54	3.853	293	37.82	34
11	56.233	269	57.75	18	4.146	273	37.48	$\overline{10}$
21	56.502	247	57.57	$\overline{17}$	4.419	250	37.58	51
31	56.749	221	57.74	49	4.669	223	38.09	87
Apr. 10	56.970	195	58.23	76	4.892	195	38.96	118
20	57.165	168	58.99	97	5.087	167	40.14	143
30	57.333	139	59.96	114	5.254	136	41.57	161
Mai 10	57.472	110	61.10	125	5.390	105	43.18	172
19	^{17}57.582	79	62.35	131	^{18}5.495	73	44.90	176
29	57.661	48	63.66	131	5.568	41	46.66	173
Juni 8	57.709	17	64.97	127	5.609	9	48.39	167
18	57.726	$\overline{13}$	66.24	119	5.618	$\overline{23}$	50.06	154
28	57.713	44	67.43	108	5.595	54	51.60	138
Juli 8	57.669	72	68.51	95	5.541	82	52.98	118
18	57.597	97	69.46	79	5.459	109	54.16	95
28	57.500	119	70.25	62	5.350	131	55.11	71
Aug. 7	57.381	137	70.87	43	5.219	147	55.82	44
17	57.244	147	71.30	24	5.072	158	56.26	16
27	57.097	150	71.54	$\overline{3}$	4.914	161	56.42	$\overline{12}$
Sept. 6	56.947	144	71.57	20	4.753	156	56.30	41
16	56.803	131	71.37	42	4.597	143	55.89	71
26	56.672	109	70.95	66	4.454	120	55.18	101
Okt. 6	56.563	78	70.29	91	4.334	89	54.17	130
16	56.485	39	69.38	115	4.245	51	52.87	159
26	56.446	$\overline{4}$	68.23	139	4.194	6	51.28	186
Nov. 5	56.450	53	66.84	162	4.188	$\overline{42}$	49.42	210
15	56.503	103	65.22	182	4.230	93	47.32	231
25	56.606	152	63.40	200	4.323	143	45.01	246
Dez. 5	56.758	198	61.40	211	4.466	191	42.55	254
15	56.956	239	59.29	218	4.657	233	40.01	256
25	57.195	271	57.11	217	4.890	268	37.45	251
35	57.466		54.94		5.158		34.94	
Mittl. Ort	55.015		78.14		2.906		60.32	
sec δ, tg δ	1.007		+0.116		1.038		+0.279	
a, a'	+2.9		−11.4		+2.8		−11.3	
b, b'	0.00		+ 0.82		−0.01		+ 0.83	

Tag	584) κ Serpentis AR.		Dekl.		585) μ Serpentis AR.		Dekl.	
1932	15h 45m		+18° 20′		15h 46m		−3° 13′	
Jan. 1	39.756	285	48.41	252	3.137	291	32.19	178
11	40.041	307	45.89	230	3.428	311	33.97	174
21	40.348	321	43.59	199	3.739	321	35.71	164
31	40.669	326	41.60	163	4.060	324	37.35	148
Feb. 10	40.995	322	39.97	121	4.384	320	38.83	127
20	41.317	312	38.76	75	4.704	309	40.10	103
März 1	41.629	297	38.01	28	5.013	293	41.13	75
11	41.926	276	37.73	$\overline{17}$	5.306	275	41.88	48
21	42.202	252	37.90	60	5.581	253	42.36	20
31	42.454	226	38.50	98	5.834	229	42.56	$\overline{5}$
Apr. 10	42.680	198	39.48	131	6.063	204	42.51	27
20	42.878	168	40.79	156	6.267	178	42.24	46
30	43.046	137	42.35	174	6.445	150	41.78	60
Mai 10	43.183	105	44.09	185	6.595	121	41.18	71
19	^{18}43.288	73	45.94	190	^{19}6.716	92	40.47	78
29	43.361	40	47.84	187	6.808	61	39.69	81
Juni 8	43.401	7	49.71	178	6.869	29	38.88	81
18	43.408	$\overline{25}$	51.49	165	6.898	$\overline{2}$	38.07	78
28	43.383	57	53.14	147	6.896	34	37.29	74
Juli 8	43.326	86	54.61	125	6.862	63	36.55	67
18	43.240	112	55.86	101	6.799	89	35.88	60
28	43.128	135	56.87	74	6.710	113	35.28	50
Aug. 7	42.993	152	57.61	45	6.597	131	34.78	41
17	42.841	163	58.06	16	6.466	142	34.37	31
27	42.678	167	58.22	$\overline{15}$	6.324	147	34.06	18
Sept. 6	42.511	162	58.07	47	6.177	142	33.88	5
16	42.349	149	57.60	78	6.035	129	33.83	$\overline{9}$
26	42.200	126	56.82	110	5.906	107	33.92	25
Okt. 6	42.074	96	55.72	141	5.799	76	34.17	43
16	41.978	57	54.31	171	5.723	38	34.60	62
26	41.921	13	52.60	198	5.685	$\overline{6}$	35.22	83
Nov. 5	41.908	$\overline{37}$	50.62	223	5.691	55	36.05	104
15	41.945	88	48.39	244	5.746	106	37.09	124
25	42.033	139	45.95	258	5.852	154	38.33	142
Dez. 5	42.172	187	43.37	267	6.006	201	39.75	157
15	42.359	229	40.70	267	6.207	241	41.32	169
25	42.588	266	38.03	259	6.448	274	43.01	175
35	42.854		35.44		6.722		44.76	
Mittl. Ort	40.690		61.30		4.140		24.35	
sec δ, tg δ	1.054		+0.332		1.002		−0.056	
a, a'	+2.7		−11.1		+3.1		−11.1	
b, b'	−0.01		+ 0.83		0.00		+ 0.83	

Tag	590) ζ Ursae min. AR.	Diff.	590) Dekl.	Diff.	588) ι Serpentis AR.	Diff.	588) Dekl.	Diff.	589) β Triang. austr. AR.	Diff.	589) Dekl.	Diff.	593) ε Coron. bor. AR.	Diff.	593) Dekl.	Diff.
1932	15h 46m		+77° 59'		15h 47m		+4° 40'		15h 49m		−63° 13'		15h 54m		+27° 3'	
	s		"		s		"		s		"		s		"	
Jan. 1	23.39	75	55.34	293	24.503	286	42.48	208	5.17	57	17.85	83	45.273	282	70.56	276
11	24.14	89	52.41	243	24.789	305	40.40	196	5.74	62	17.02	40	45.555	309	67.80	249
21	25.03	99	49.98	187	25.094	318	38.44	179	6.36	64	16.62	3	45.864	326	65.31	212
31	26.02	107	48.11	124	25.412	321	36.65	155	7.00	65	16.65	45	46.190	334	63.19	168
Feb. 10	27.09	109	46.87	56	25.733	317	35.10	126	7.65	65	17.10	84	46.524	334	61.51	120
20	28.18	108	46.31	12	26.050	307	33.84	93	8.30	64	17.94	121	46.858	326	60.31	67
März 1	29.26	104	46.43	78	26.357	292	32.91	58	8.94	61	19.15	154	47.184	310	59.64	14
11	30.30	95	47.21	141	26.649	273	32.33	23	9.55	57	20.69	183	47.494	291	59.50	38
21	31.25	83	48.62	195	26.922	251	32.10	10	10.12	53	22.52	208	47.785	266	59.88	87
31	32.08	69	50.57	241	27.173	227	32.20	41	10.65	48	24.60	227	48.051	239	60.75	129
Apr. 10	32.77	53	52.98	277	27.400	201	32.61	67	11.13	43	26.87	242	48.290	209	62.04	166
20	33.30	35	55.75	302	27.601	175	33.28	88	11.56	37	29.29	253	48.499	176	63.70	195
30	33.65	17	58.77	316	27.776	146	34.16	105	11.93	30	31.82	259	48.675	143	65.65	214
Mai 10	33.82	1	61.93	319	27.922	117	35.21	116	12.23	23	34.41	260	48.818	108	67.79	226
19*)	(19) 33.81	19	65.12	311	(19) 28.039	87	36.37	122	(19) 12.46	16	37.01	256	48.926	72	70.05	230
29	33.62	36	68.23	293	28.126	56	37.59	124	12.62	9	39.57	246	(21) 48.998	37	72.35	226
Juni 8	33.26	52	71.16	267	28.182	24	38.83	120	12.71	1	42.03	230	49.035	1	74.61	215
18	32.74	67	73.83	233	28.206	7	40.03	113	12.72	6	44.33	209	49.036	35	76.76	199
28	32.07	79	76.16	193	28.199	38	41.16	104	12.66	14	46.42	183	49.001	68	78.75	176
Juli 8	31.28	90	78.09	149	28.161	67	42.20	92	12.52	20	48.25	151	48.933	100	80.51	149
18	30.38	99	79.58	101	28.094	94	43.12	77	12.32	26	49.76	115	48.833	129	82.00	119
28	29.39	105	80.59	50	28.000	116	43.89	62	12.06	31	50.91	75	48.704	153	83.19	86
Aug. 7	28.34	109	81.09	3	27.884	134	44.51	45	11.75	35	51.66	32	48.551	172	84.05	52
17	27.25	110	81.06	54	27.750	146	44.96	27	11.40	37	51.98	12	48.379	184	84.57	15
27	26.15	110	80.52	105	27.604	150	45.23	8	11.03	37	51.86	57	48.195	189	84.72	23
Sept. 6	25.05	106	79.47	156	27.454	146	45.31	13	10.66	36	51.29	99	48.006	185	84.49	60
16	23.99	100	77.91	203	27.308	133	45.18	34	10.30	33	50.30	139	47.821	172	83.89	98
26	22.99	90	75.88	246	27.175	112	44.84	57	9.97	27	48.91	174	47.649	151	82.91	134
Okt. 6	22.09	79	73.42	286	27.063	82	44.27	79	9.70	20	47.17	202	47.498	119	81.57	170
16	21.30	66	70.56	320	26.981	43	43.48	103	9.50	12	45.15	222	47.379	81	79.87	203
26	20.64	50	67.36	346	26.938	0	42.45	126	9.38	3	42.93	233	47.298	35	77.84	234
Nov. 5	20.14	32	63.90	367	26.938	48	41.19	149	9.35	8	40.60	235	47.263	16	75.50	260
15	19.82	12	60.23	378	26.986	98	39.70	170	9.43	18	38.25	225	47.279	69	72.90	281
25	19.70	7	56.45	378	27.084	147	38.00	187	9.61	28	36.00	208	47.348	123	70.09	295
Dez. 5	19.77	27	52.67	369	27.231	194	36.13	199	9.89	38	33.92	182	47.471	174	67.14	301
15	20.04	47	48.98	348	27.425	234	34.14	207	10.27	47	32.10	148	47.645	220	64.13	299
25	20.51	64	45.50	315	27.659	268	32.07	208	10.74	54	30.62	111	47.865	261	61.14	286
35	21.15		42.35		27.927		29.99		11.28		29.51		48.126		58.28	
Mittl. Ort	26.76		76.33		25.471		52.23		8.01		22.05		46.271		85.21	
sec δ, tg δ	4.812		+4.706		1.003		+0.082		2.220		−1.982		1.123		+0.511	
a, *a'*	−2.2		−11.0		+3.0		−11.0		+5.3		−10.8		+2.5		−10.4	
b, *b'*	−0.17		+ 0.83		0.00		+ 0.84		+0.07		+ 0.84		−0.02		+ 0.85	

*) Bei Stern 593) lies Mai 20

Tag	594) δ Scorpii AR.		594) δ Scorpii Dekl.		598) ϑ Draconis AR.		598) ϑ Draconis Dekl.		597) β Scorpii AR.		597) β Scorpii Dekl.		603) δ Ophiuchi AR.		603) δ Ophiuchi Dekl.	
1932	15h 56m		−22° 25′		16h 0m		+58° 44′		16h 1m		−19° 37′		16h 10m		−3° 31′	
Jan. 1	17.282	313	50.79	91	35.178	358	27.88	317	27.535	303	19.49	100	45.699	275	22.61	169
11	17.595	334	51.70	102	35.536	413	24.71	275	27.838	326	20.49	110	45.974	298	24.30	166
21	17.929	347	52.72	111	35.949	454	21.96	222	28.164	339	21.59	116	46.272	313	25.96	156
31	18.276	351	53.83	117	36.403	480	19.74	163	28.503	344	22.75	117	46.585	320	27.52	141
Feb. 10	18.627	347	55.00	116	36.883	490	18.11	97	28.847	341	23.92	114	46.905	319	28.93	121
20	18.974	338	56.16	111	37.373	486	17.14	30	29.188	333	25.06	107	47.224	312	30.14	97
März 1	19.312	324	57.27	105	37.859	467	16.84	$\overline{38}$	29.521	320	26.13	97	47.536	302	31.11	70
11	19.636	305	58.32	96	38.326	436	17.22	101	29.841	302	27.10	86	47.838	286	31.81	43
21	19.941	284	59.28	86	38.762	394	18.23	161	30.143	282	27.96	73	48.124	268	32.24	16
31	20.225	261	60.14	75	39.156	343	19.84	212	30.425	260	28.69	60	48.392	247	32.40	$\overline{10}$
Apr. 10	20.486	235	60.89	65	39.499	285	21.96	254	30.685	235	29.29	48	48.639	224	32.30	33
20	20.721	208	61.54	55	39.784	223	24.50	285	30.920	209	29.77	38	48.863	200	31.97	51
30	20.929	180	62.09	46	40.007	157	27.35	306	31.129	181	30.15	28	49.063	173	31.46	65
Mai 10	21.109	149	62.55	39	40.164	89	30.41	316	31.310	151	30.43	20	49.236	145	30.81	77
20	21.258	117	62.94	32	40.253	22	33.57	316	31.461	120	30.63	14	49.381	115	30.04	83
	21				22				22				25			
29	21.375	83	63.26	26	40.275	$\overline{45}$	36.73	305	31.581	86	30.77	9	49.496	83	29.21	86
Juni 8	21.458	47	63.52	20	40.230	109	39.78	285	31.667	51	30.86	4	49.579	51	28.35	86
18	21.505	12	63.72	14	40.121	171	42.63	258	31.718	16	30.90	$\overline{1}$	49.630	16	27.49	82
28	21.517	$\overline{23}$	63.86	8	39.950	226	45.21	224	31.734	$\overline{19}$	30.89	5	49.646	$\overline{17}$	26.67	77
Juli 8	21.494	58	63.94	1	39.724	276	47.45	184	31.715	53	30.84	9	49.629	48	25.90	71
18	21.436	89	63.95	$\overline{7}$	39.448	319	49.29	140	31.662	84	30.75	14	49.581	79	25.19	62
28	21.347	116	63.88	14	39.129	353	50.69	93	31.578	112	30.61	20	49.502	106	24.57	53
Aug. 7	21.231	137	63.74	23	38.776	379	51.62	43	31.466	133	30.41	24	49.396	127	24.04	42
17	21.094	152	63.51	31	38.397	395	52.05	$\overline{8}$	31.333	149	30.17	29	49.269	143	23.62	32
27	20.942	158	63.20	38	38.002	399	51.97	60	31.184	155	29.88	34	49.126	151	23.30	20
Sept. 6	20.784	155	62.82	43	37.603	390	51.37	110	31.029	154	29.54	37	48.975	151	23.10	8
16	20.629	141	62.39	47	37.213	370	50.27	160	30.875	141	29.17	38	48.824	141	23.02	$\overline{6}$
26	20.488	118	61.92	48	36.843	336	48.67	207	30.734	120	28.79	37	48.683	122	23.08	22
Okt. 6	20.370	86	61.44	46	36.507	290	46.60	250	30.614	88	28.42	32	48.561	94	23.30	39
16	20.284	44	60.98	39	36.217	233	44.10	289	30.526	48	28.10	24	48.467	58	23.69	57
26	20.240	$\overline{4}$	60.59	29	35.984	164	41.21	323	30.478	1	27.86	13	48.409	16	24.26	76
Nov. 5	20.244	57	60.30	15	35.820	88	37.98	349	30.477	$\overline{50}$	27.73	$\overline{1}$	48.393	$\overline{32}$	25.02	95
15	20.301	111	60.15	$\overline{2}$	35.732	5	34.49	368	30.527	103	27.74	18	48.425	81	25.97	115
25	20.412	164	60.17	21	35.727	$\overline{80}$	30.81	376	30.630	156	27.92	36	48.506	131	27.12	133
Dez. 5	20.576	214	60.38	40	35.807	163	27.05	374	30.786	205	28.28	55	48.637	178	28.45	148
15	20.790	258	60.78	60	35.970	244	23.31	361	30.991	249	28.83	74	48.815	221	29.93	159
25	21.048	294	61.38	79	36.214	317	19.70	336	31.240	285	29.57	88	49.036	256	31.52	165
35	21.342		62.17		36.531		16.34		31.525		30.45		49.292		33.17	
Mittl. Ort	18.510		47.08		36.745		47.06		28.742		14.94		46.794		14.28	
sec δ, tg δ	1.082		−0.413		1.928		+1.648		1.062		−0.356		1.002		−0.062	
a, a'	+3.5		−10.3		+1.2		−10.0		+3.5		−9.9		+3.1		−9.2	
b, b'	+0.01		+0.86		−0.05		+0.87		+0.01		+0.87		0.00		+0.89	

Tag	606) 19 Ursae min. AR.		606) Dekl.		605) ε Ophiuchi AR.		605) Dekl.		604) γ^2 Normae AR.		604) Dekl.		608) τ Herculis AR.		608) Dekl.	
1932	$16^h\ 12^m$		$+76°\ 2'$		$16^h\ 14^m$		$-4°\ 31'$		$16^h\ 14^m$		$-49°\ 59'$		$16^h\ 17^m$		$+46°\ 27'$	
Jan. 1	40.70	58	38.47	315	42.140	273	49.72	162	42.486	405	25.48	56	40.388	288	70.80	319
11	41.28	71	35.32	272	42.413	297	51.34	160	42.891	440	24.92	25	40.676	331	67.61	284
21	41.99	81	32.60	219	42.710	312	52.94	152	43.331	464	24.67	6	41.007	362	64.77	239
31	42.80	89	30.41	159	43.022	320	54.46	138	43.795	476	24.73	37	41.369	382	62.38	185
Feb. 10	43.69	94	28.82	93	43.342	320	55.84	118	44.271	478	25.10	65	41.751	392	60.53	126
20	44.63	95	27.89	25	43.662	314	57.02	96	44.749	471	25.75	90	42.143	390	59.27	63
März 1	45.58	92	27.64	42	43.976	303	57.98	70	45.220	457	26.65	112	42.533	379	58.64	2
11	46.50	87	28.06	107	44.279	289	58.68	43	45.677	437	27.77	132	42.912	360	58.66	65
21	47.37	79	29.13	167	44.568	271	59.11	17	46.114	412	29.09	147	43.272	332	59.31	123
31	48.16	68	30.80	218	44.839	251	59.28	7	46.526	382	30.56	160	43.604	298	60.54	175
Apr. 10	48.84	55	32.98	260	45.090	228	59.21	29	46.908	348	32.16	171	43.902	259	62.29	220
20	49.39	41	35.58	292	45.318	204	58.92	47	47.256	310	33.87	179	44.161	217	64.49	254
30	49.80	26	38.50	312	45.522	178	58.45	62	47.566	269	35.66	183	44.378	171	67.03	279
Mai 10	50.06	10	41.62	322	45.700	150	57.83	73	47.835	223	37.49	185	44.549	123	69.82	294
20	50.16	6	44.84	322	45.850	119	57.10	79	48.058	175	39.34	183	44.672	74	72.76	298
29	50.10	20	48.06	310	45.969	88	56.31	82	48.233	124	41.17	179	44.746	25	75.74	294
Juni 8	49.90	35	51.16	290	46.057	55	55.49	81	48.357	70	42.96	169	44.771	25	78.68	281
18	49.55	49	54.06	262	46.112	21	54.68	79	48.427	16	44.65	157	44.746	72	81.49	260
28	49.06	61	56.68	227	46.133	13	53.89	75	48.443	38	46.22	140	44.674	118	84.09	231
Juli 8	48.45	71	58.95	186	46.120	46	53.14	68	48.405	90	47.62	118	44.556	161	86.40	198
18	47.74	81	60.81	141	46.074	76	52.46	60	48.315	138	48.80	93	44.395	198	88.38	159
28	46.93	87	62.22	92	45.998	104	51.86	52	48.177	179	49.73	65	44.197	230	89.97	116
Aug. 7	46.06	93	63.14	42	45.894	126	51.34	42	47.998	213	50.38	34	43.967	256	91.13	72
17	45.13	95	63.56	10	45.768	143	50.92	32	47.785	237	50.72	1	43.711	274	91.85	25
27	44.18	96	63.46	62	45.625	151	50.60	22	47.548	248	50.73	32	43.437	282	92.10	23
Sept. 6	43.22	95	62.84	114	45.474	151	50.38	10	47.300	246	50.41	65	43.155	281	91.87	71
16	42.27	91	61.70	163	45.323	142	50.28	3	47.054	230	49.76	96	42.874	268	91.16	119
26	41.36	85	60.07	209	45.181	124	50.31	18	46.824	200	48.80	124	42.606	246	89.97	165
Okt. 6	40.51	75	57.98	253	45.057	97	50.49	33	46.624	156	47.56	146	42.360	212	88.32	208
16	39.76	65	55.45	292	44.960	61	50.82	51	46.468	100	46.10	161	42.148	169	86.24	249
26	39.11	52	52.53	326	44.899	18	51.33	69	46.368	34	44.49	171	41.979	117	83.75	285
Nov. 5	38.59	37	49.27	350	44.881	29	52.02	88	46.334	38	42.78	172	41.862	57	80.90	315
15	38.22	20	45.77	368	44.910	79	52.90	107	46.372	113	41.06	165	41.805	7	77.75	338
25	38.02	3	42.09	376	44.989	128	53.97	125	46.485	188	39.41	152	41.812	72	74.37	352
Dez. 5	37.99	14	38.33	374	45.117	175	55.22	140	46.673	259	37.89	132	41.884	138	70.85	357
15	38.13	32	34.59	359	45.292	219	56.62	152	46.932	323	36.57	107	42.022	201	67.28	351
25	38.45	47	31.00	334	45.511	255	58.14	158	47.255	376	35.50	78	42.223	256	63.77	333
35	38.92		27.66		45.766		59.72		47.631		34.72		42.479		60.44	
Mittl. Ort	44.25		58.13		43.254		41.51		44.487		25.87		41.744		87.97	
sec δ, tg δ	4.148		+4.026		1.003		−0.079		1.555		−1.191		1.452		+1.053	
a, *a'*	−1.7		−9.0		+3.2		−8.9		+4.5		−8.9		+1.8		−8.7	
b, *b'*	−0.12		+0.89		0.00		+0.90		+0.04		+0.90		−0.03		+0.90	

Scheinbare Sternörter 1932

Tag	609) γ Herculis AR.	Δ	609) γ Herculis Dekl.	Δ	611) γ Apodis AR.	Δ	611) γ Apodis Dekl.	Δ	615) η Draconis AR.	Δ	615) η Draconis Dekl.	Δ	616) α Scorpii AR.	Δ	616) α Scorpii Dekl.	Δ
1932	$16^h 18^m$		+19° 18′		$16^h 22^m$		−78° 44′		$16^h 23^m$		+61° 39′		$16^h 25^m$		−26° 16′	
Jan. 1	54.055	260	28.95	257	50.74	108	50.04	181	1.99	34	45.61	332	12.679	300	62.05	52
11	54.315	287	26.38	236	51.82	122	48.23	138	2.33	41	42.29	292	12.979	327	62.57	65
21	54.602	306	24.02	209	53.04	131	46.85	91	2.74	46	39.37	243	13.306	345	63.22	77
31	54.908	317	21.93	172	54.35	138	45.94	42	3.20	50	36.94	185	13.651	355	63.99	85
Feb. 10	55.225	320	20.21	131	55.73	141	45.52	8	3.70	52	35.09	120	14.006	356	64.84	88
20	55.545	316	18.90	85	57.14	141	45.60	54	4.22	52	33.89	54	14.362	352	65.72	89
März 1	55.861	307	18.05	37	58.55	139	46.14	99	4.74	51	33.35	15	14.714	342	66.61	86
11	56.168	291	17.68	11	59.94	133	47.13	142	5.25	48	33.50	81	15.056	328	67.47	82
21	56.459	273	17.79	56	61.27	126	48.55	180	5.73	45	34.31	143	15.384	311	68.29	77
31	56.732	250	18.35	97	62.53	116	50.35	214	6.18	40	35.74	197	15.695	291	69.06	71
Apr. 10	56.982	225	19.32	132	63.69	104	52.49	243	6.58	34	37.71	244	15.986	268	69.77	65
20	57.207	198	20.64	162	64.73	91	54.92	267	6.92	27	40.15	279	16.254	242	70.42	59
30	57.405	168	22.26	183	65.64	76	57.59	285	7.19	20	42.94	305	16.496	214	71.01	54
Mai 10	57.573	137	24.09	197	66.40	59	60.44	298	7.39	13	45.99	320	16.710	184	71.55	50
20	[27] 57.710	104	26.06	205	[28] 66.99	42	63.42	304	[28] 7.52	6	49.19	323	[29] 16.894	151	72.05	46
29	57.814	69	28.11	204	67.41	24	66.46	302	7.58	2	52.42	317	17.045	115	72.51	42
Juni 8	57.883	34	30.15	198	67.65	6	69.48	294	7.56	10	55.59	302	17.160	77	72.93	38
18	57.917	1	32.13	186	67.71	13	72.42	279	7.46	16	58.61	278	17.237	38	73.31	33
28	57.916	36	33.99	169	67.58	30	75.21	255	7.30	23	61.39	247	17.275	1	73.64	29
Juli 8	57.880	70	35.68	148	67.28	47	77.76	225	7.07	29	63.86	209	17.274	39	73.93	22
18	57.810	100	37.16	124	66.81	63	80.01	188	6.78	34	65.95	167	17.235	76	74.15	14
28	57.710	128	38.40	97	66.18	76	81.89	145	6.44	39	67.62	121	17.159	108	74.29	5
Aug. 7	57.582	151	39.37	67	65.42	86	83.34	97	6.05	42	68.83	71	17.051	135	74.34	5
17	57.431	167	40.04	37	64.56	92	84.31	46	5.63	44	69.54	20	16.916	155	74.29	16
27	57.264	175	40.41	5	63.64	96	84.77	9	5.19	46	69.74	31	16.761	167	74.13	27
Sept. 6	57.089	176	40.46	28	62.68	95	84.68	64	4.73	45	69.43	83	16.594	168	73.86	36
16	56.913	168	40.18	61	61.73	90	84.04	116	4.28	43	68.60	134	16.426	160	73.50	45
26	56.745	150	39.57	94	60.83	80	82.88	165	3.85	40	67.26	183	16.266	140	73.05	51
Okt. 6	56.595	123	38.63	126	60.03	67	81.23	209	3.45	36	65.43	229	16.126	111	72.54	55
16	56.472	88	37.37	158	59.36	50	79.14	245	3.09	30	63.14	271	16.015	71	71.99	54
26	56.384	46	35.79	187	58.86	30	76.69	271	2.79	24	60.43	308	15.944	24	71.45	50
Nov. 5	56.338	2	33.92	213	58.56	9	73.98	288	2.55	15	57.35	338	15.920	28	70.95	41
15	56.340	52	31.79	237	58.47	14	71.10	292	2.40	6	53.97	361	15.948	83	70.54	29
25	56.392	103	29.42	254	58.61	37	68.18	287	2.34	2	50.36	374	16.031	139	70.25	14
Dez. 5	56.495	153	26.88	264	58.98	60	65.31	270	2.36	12	46.62	377	16.170	191	70.11	4
15	56.648	198	24.24	267	59.58	81	62.61	244	2.48	21	42.85	368	16.361	239	70.15	21
25	56.846	238	21.57	262	60.39	98	60.17	209	2.69	29	39.17	347	16.600	279	70.36	39
35	57.084		18.95		61.37		58.08		2.98		35.70		16.879		70.75	
Mittl. Ort	55.144		41.88		57.69		52.88		3.95		64.00		14.046		57.78	
sec δ, tg δ	1.060		+0.350		5.125		−5.026		2.107		+1.855		1.115		−0.494	
a, *a′*	+2.6		−8.6		+9.2		−8.2		+0.8		−8.2		+3.7		−8.1	
b, *b′*	−0.01		+0.90		+0.14		+0.91		−0.05		+0.91		+0.01		+0.92	

Tag	618) β Herculis AR.		618) β Herculis Dekl.		619) A Draconis AR.		619) A Draconis Dekl.		621) σ Herculis AR.		621) σ Herculis Dekl.		622) ζ Ophiuchi AR.		622) ζ Ophiuchi Dekl.	
1932	16h 27m		+21° 37′		16h 28m		+68° 54′		16h 31m		+42° 34′		16h 33m		−10° 25′	
Jan. 1	16.613	253	58.40	265	3.78	40	36.54	332	53.240	264	18.65	319	23.521	267	58.50	127
11	16.866	282	55.75	244	4.18	48	33.22	292	53.504	305	15.46	287	23.788	292	59.77	129
21	17.148	303	53.31	215	4.66	56	30.30	242	53.809	337	12.59	247	24.080	310	61.06	126
31	17.451	316	51.16	178	5.22	62	27.88	185	54.146	358	10.12	196	24.390	320	62.32	118
Feb. 10	17.767	321	49.38	134	5.84	65	26.03	121	54.504	369	8.16	139	24.710	323	63.50	105
20	18.088	318	48.04	87	6.49	66	24.82	52	54.873	371	6.77	79	25.033	321	64.55	89
März 1	18.406	311	47.17	37	7.15	65	24.30	16	55.244	364	5.98	15	25.354	313	65.44	69
11	18.717	297	46.80	12	7.80	62	24.46	82	55.608	348	5.83	46	25.667	301	66.13	49
21	19.014	278	46.92	60	8.42	57	25.28	145	55.956	325	6.29	105	25.968	286	66.62	28
31	19.292	257	47.52	102	8.99	50	26.73	200	56.281	297	7.34	157	26.254	268	66.90	8
Apr. 10	19.549	233	48.54	140	9.49	43	28.73	246	56.578	264	8.91	203	26.522	248	66.98	9
20	19.782	205	49.94	171	9.92	34	31.19	283	56.842	227	10.94	240	26.770	225	66.89	25
30	19.987	175	51.65	194	10.26	24	34.02	308	57.069	185	13.34	267	26.995	200	66.64	36
Mai 10	20.162	144	53.59	209	10.50	15	37.10	324	57.254	142	16.01	285	27.195	172	66.28	45
20	20.306	110	55.68	217	10.65	4	40.34	327	57.396	96	18.86	292	27.367	142	65.83	51
29*	[29] 20.416	75	57.85	217	[29] 10.69	6	43.61	321	[30] 57.492	50	21.78	291	[31] 27.509	110	65.32	54
Juni 8	20.491	38	60.02	211	10.63	16	46.82	306	57.542	4	24.69	281	27.619	75	64.78	54
18	20.529	2	62.13	199	10.47	25	49.88	281	57.546	43	27.50	263	27.694	40	64.24	53
28	20.531	34	64.12	181	10.22	34	52.69	250	57.503	88	30.13	237	27.734	4	63.71	50
Juli 8	20.497	69	65.93	160	9.88	41	55.19	212	57.415	129	32.50	207	27.738	32	63.21	47
18	20.428	101	67.53	134	9.47	49	57.31	169	57.286	168	34.57	171	27.706	65	62.74	43
28	20.327	130	68.87	105	8.98	54	59.00	123	57.118	202	36.28	131	27.641	96	62.31	38
Aug. 7	20.197	154	69.92	75	8.44	58	60.23	73	56.916	228	37.59	89	27.545	121	61.93	33
17	20.043	171	70.67	42	7.86	61	60.96	21	56.688	249	38.48	44	27.424	141	61.60	29
27	19.872	182	71.09	9	7.25	63	61.17	30	56.439	260	38.92	2	27.283	153	61.31	23
Sept. 6	19.690	183	71.18	26	6.62	63	60.87	83	56.179	262	38.90	49	27.130	156	61.08	18
16	19.507	176	70.92	60	5.99	60	60.04	134	55.917	253	38.41	95	26.974	149	60.90	10
26	19.331	160	70.32	95	5.39	56	58.70	184	55.664	234	37.46	142	26.825	134	60.80	2
Okt. 6	19.171	134	69.37	130	4.83	51	56.86	229	55.430	205	36.04	185	26.691	108	60.78	8
16	19.037	99	68.07	162	4.32	44	54.57	272	55.225	165	34.19	226	26.583	74	60.86	21
26	18.938	57	66.45	193	3.88	35	51.85	309	55.060	118	31.93	263	26.509	32	61.07	35
Nov. 5	18.881	10	64.52	221	3.53	25	48.76	340	54.942	62	29.30	295	26.477	14	61.42	50
15	18.871	40	62.31	244	3.28	15	45.36	361	54.880	3	26.35	321	26.491	65	61.92	66
25	18.911	92	59.87	262	3.13	2	41.75	375	54.877	59	23.14	337	26.556	115	62.58	83
Dez. 5	19.003	142	57.25	273	3.11	10	38.00	378	54.936	122	19.77	346	26.671	164	63.41	98
15	19.145	189	54.52	276	3.21	21	34.22	369	55.058	180	16.31	344	26.835	208	64.39	111
25	19.334	230	51.76	270	3.42	33	30.53	347	55.238	234	12.87	330	27.043	246	65.50	120
35	19.564		49.06		3.75		27.06		55.472		9.57		27.289		66.70	
Mittl. Ort	17.746		71.64		6.41		55.09		54.614		34.80		24.729		50.99	
sec δ, tg δ	1.076		+0.397		2.780		+2.594		1.358		+0.919		1.017		−0.184	
a, a′	+2.6		−7.9		−0.1		−7.8		+1.9		−7.5		+3.3		−7.4	
b, b′	−0.01		+0.92		−0.07		+0.92		−0.02		+0.93		0.00		+0.93	

*) Bei Stern 621) und 622) lies Mai 30

Scheinbare Sternörter 1932

Tag	626) η Herculis AR.		Dekl.		625) α Triang. austr. AR.		Dekl.		627) Grb 2377 AR.		Dekl.		628) ε Scorpii AR.		Dekl.	
1932	16h 40m		+39° 2'		16h 41m		−68° 54'		16h 43m		+56° 53'		16h 45m		−34° 10'	
Jan. 1	32.487	250	47.01	315	22.96	60	19.74	168	58.402	283	52.93	339	43.687	303	21.14	4
11	32.737	290	43.86	286	23.56	68	18.06	130	58.685	343	49.54	306	43.990	335	21.10	13
21	33.027	320	41.00	248	24.24	74	16.76	90	59.028	393	46.48	262	44.325	357	21.23	30
31	33.347	342	38.52	201	24.98	77	15.86	49	59.421	430	43.86	208	44.682	372	21.53	44
Feb. 10	33.689	353	36.51	147	25.75	80	15.37	7	59.851	453	41.78	147	45.054	379	21.97	56
20	34.042	356	35.04	88	26.55	80	15.30	34	60.304	464	40.31	81	45.433	378	22.53	65
März 1	34.398	351	34.16	26	27.35	79	15.64	73	60.768	459	39.50	13	45.811	371	23.18	71
11	34.749	338	33.90	34	28.14	77	16.37	109	61.227	444	39.37	53	46.182	361	23.89	75
21	35.087	319	34.24	92	28.91	74	17.46	142	61.671	416	39.90	116	46.543	345	24.64	79
31	35.406	294	35.16	143	29.65	69	18.88	173	62.087	380	41.06	173	46.888	327	25.43	81
Apr. 10	35.700	264	36.59	190	30.34	63	20.61	199	62.467	334	42.79	223	47.215	305	26.24	82
20	35.964	230	38.49	228	30.97	57	22.60	221	62.801	282	45.02	264	47.520	280	27.06	83
30	36.194	192	40.77	255	31.54	49	24.81	240	63.083	224	47.66	293	47.800	251	27.89	84
Mai 10	36.386	153	43.32	274	32.03	41	27.21	252	63.307	163	50.59	313	48.051	218	28.73	85
20	36.539	110	46.06	284	32.44	32	29.73	259	63.470	98	53.72	323	48.269	183	29.58	84
30	36.649	66	48.90	285	32.76	23	32.32	262	63.568	33	56.95	321	48.452	144	30.42	83
Juni 8	[1] 36.715	22	51.75	276	[2] 32.99	12	34.94	257	[2] 63.601	31	60.16	311	[3] 48.596	102	31.25	81
18	36.737	23	54.51	260	33.11	3	37.51	247	63.570	95	63.27	291	48.698	59	32.06	77
28	36.714	67	57.11	237	33.14	8	39.98	230	63.475	156	66.18	265	48.757	14	32.83	70
Juli 8	36.647	108	59.48	209	33.06	17	42.28	205	63.319	213	68.83	232	48.771	29	33.53	62
18	36.539	146	61.57	175	32.89	27	44.33	176	63.106	264	71.15	193	48.742	72	34.15	52
28	36.393	180	63.32	138	32.62	34	46.09	139	62.842	308	73.08	150	48.670	110	34.67	38
Aug. 7	36.213	208	64.70	97	32.28	41	47.48	99	62.534	344	74.58	103	48.560	143	35.05	23
17	36.005	229	65.67	54	31.87	46	48.47	54	62.190	370	75.61	54	48.417	168	35.28	5
27	35.776	242	66.21	10	31.41	49	49.01	7	61.820	386	76.15	3	48.249	184	35.33	12
Sept. 6	35.534	245	66.31	35	30.92	49	49.08	41	61.434	390	76.18	48	48.065	189	35.21	30
16	35.289	239	65.96	81	30.43	47	48.67	89	61.044	381	75.70	100	47.876	184	34.91	47
26	35.050	222	65.15	125	29.96	43	47.78	134	60.663	359	74.70	149	47.692	167	34.44	62
Okt. 6	34.828	196	63.90	169	29.53	37	46.44	175	60.304	324	73.21	197	47.525	137	33.82	74
16	34.632	159	62.21	209	29.16	28	44.69	208	59.980	277	71.24	242	47.388	98	33.08	83
26	34.473	114	60.12	247	28.88	17	42.61	234	59.703	219	68.82	282	47.290	50	32.25	86
Nov. 5	34.359	61	57.65	279	28.71	5	40.27	250	59.484	151	66.00	316	47.240	5	31.39	85
15	34.298	5	54.86	306	28.66	7	37.77	257	59.333	76	62.84	343	47.245	64	30.54	79
25	34.293	55	51.80	325	28.73	20	35.20	254	59.257	4	59.41	361	47.309	123	29.75	68
Dez. 5	34.348	113	48.55	334	28.93	33	32.66	241	59.261	84	55.80	370	47.432	180	29.07	54
15	34.461	169	45.21	335	29.26	44	30.25	220	59.345	164	52.10	367	47.612	232	28.53	37
25	34.630	221	41.86	324	29.70	55	28.05	191	59.509	239	48.43	352	47.844	278	28.16	19
35	34.851		38.62		30.25		26.14		59.748		44.91		48.122		27.97	
Mittl. Ort	33.851		62.42		26.74		20.24		60.310		69.89		45.243		17.12	
sec δ, tg δ	1.288		+0.811		2.779		−2.592		1.831		+1.534		1.209		−0.679	
a, a'	+2.1		−6.8		+6.3		−6.7		+1.1		−6.5		+3.9		−6.4	
b, b'	−0.02		+0.94		+0.06		+0.94		−0.03		+0.95		+0.01		+0.95	

Tag	629) 49 Herculis AR.	Δ	629) Dekl.	Δ	630) ζ² Scorpii AR.	Δ	630) Dekl.	Δ
1932	16h 48m		+15° 4′		16h 49m		−42° 14′	
Jan. 1	57.848 s	235	61.10″	240	45.720 s	328	51.15″	51
11	58.083	265	58.70	225	46.048	366	50.64	28
21	58.348	288	56.45	202	46.414	392	50.36	6
31	58.636	302	54.43	172	46.806	409	50.30	15
Feb. 10	58.938	310	52.71	136	47.215	418	50.45	35
20	59.248	312	51.35	94	47.633	418	50.80	52
März 1	59.560	307	50.41	50	48.051	413	51.32	66
11	59.867	297	49.91	5	48.464	402	51.98	80
21	60.164	284	49.86	39	48.866	386	52.78	91
31	60.448	267	50.25	78	49.252	366	53.69	100
Apr. 10	60.715	246	51.03	114	49.618	342	54.69	108
20	60.961	222	52.17	144	49.960	313	55.77	115
30	61.183	197	53.61	167	50.273	281	56.92	121
Mai 10	61.380	167	55.28	183	50.554	246	58.13	126
20	61.547	136	57.11	193	50.800	205	59.39	128
30	61.683	102	59.04	195	51.005	161	60.67	128
Juni 8	[4] 61.785	66	60.99	192	[4] 51.166	115	61.95	126
18	61.851	30	62.91	183	51.281	65	63.21	120
28	61.881	7	64.74	169	51.346	15	64.41	112
Juli 8	61.874	43	66.43	152	51.361	35	65.53	101
18	61.831	77	67.95	130	51.326	81	66.54	85
28	61.754	109	69.25	107	51.245	125	67.39	67
Aug. 7	61.645	135	70.32	81	51.120	162	68.06	45
17	61.510	156	71.13	54	50.958	190	68.51	21
27	61.354	170	71.67	25	50.768	208	68.72	4
Sept. 6	61.184	175	71.92	4	50.560	215	68.68	30
16	61.009	172	71.88	34	50.345	210	68.38	55
26	60.837	158	71.54	65	50.135	191	67.83	78
Okt. 6	60.679	136	70.89	95	49.944	159	67.05	98
16	60.543	105	69.94	125	49.785	116	66.07	113
26	60.438	66	68.69	154	49.669	64	64.94	123
Nov. 5	60.372	21	67.15	180	49.605	3	63.71	128
15	60.351	27	65.35	204	49.602	62	62.43	126
25	60.378	76	63.31	223	49.664	128	61.17	117
Dez. 5	60.454	126	61.08	236	49.792	191	60.00	105
15	60.580	171	58.72	243	49.983	249	58.95	88
25	60.751	213	56.29	242	50.232	301	58.07	66
35	60.964		53.87		50.533		57.41	
Mittl. Ort	59.042		73.06		47.493		48.03	
sec δ, tg δ	1.036		+0.269		1.351		−0.908	
a, *a′*	+2.7		−6.1		+4.2		−6.0	
b, *b′*	−0.01		+0.95		+0.02		+0.95	

Tag	631) ζ Arae AR.	Δ	631) Dekl.	Δ	633) κ Ophiuchi AR.	Δ	633) Dekl.	Δ
1932	16h 52m		−55° 53′		16h 54m		+9° 28′	
Jan. 1	56.691 s	405	7.35″	123	25.699 s	232	34.74″	215
11	57.096	455	6.12	93	25.931	262	32.59	204
21	57.551	493	5.19	62	26.193	284	30.55	187
31	58.044	519	4.57	30	26.477	298	28.68	160
Feb. 10	58.563	532	4.27	1	26.775	306	27.08	129
20	59.095	536	4.28	31	27.081	308	25.79	92
März 1	59.631	531	4.59	59	27.389	305	24.87	54
11	60.162	519	5.18	85	27.694	296	24.33	13
21	60.681	498	6.03	110	27.990	283	24.20	25
31	61.179	472	7.13	130	28.273	268	24.45	62
Apr. 10	61.651	441	8.43	149	28.541	249	25.07	94
20	62.092	402	9.92	166	28.790	227	26.01	121
30	62.494	359	11.58	179	29.017	202	27.22	143
Mai 10	62.853	310	13.37	190	29.219	175	28.65	157
20	63.163	255	15.27	196	29.394	144	30.22	166
30	63.418	196	17.23	199	29.538	111	31.88	170
Juni 8	[5] 63.614	133	19.22	197	[5] 29.649	77	33.58	167
18	63.747	67	21.19	190	29.726	41	35.25	160
28	63.814	1	23.09	178	29.767	3	36.85	149
Juli 8	63.815	64	24.87	161	29.770	32	38.34	134
18	63.751	125	26.48	140	29.738	67	39.68	116
28	63.626	182	27.88	112	29.671	99	40.84	96
Aug. 7	63.444	229	29.00	81	29.572	126	41.80	74
17	63.215	266	29.81	46	29.446	148	42.54	52
27	62.949	290	30.27	9	29.298	162	43.06	28
Sept. 6	62.659	299	30.36	29	29.136	169	43.34	3
16	62.360	291	30.07	67	28.967	166	43.37	23
26	62.069	268	29.40	102	28.801	153	43.14	49
Okt. 6	61.801	227	28.38	134	28.648	132	42.65	75
16	61.574	172	27.04	161	28.516	102	41.90	101
26	61.402	104	25.43	181	28.414	64	40.89	127
Nov. 5	61.298	27	23.62	194	28.350	20	39.62	151
15	61.271	56	21.68	198	28.330	27	38.11	173
25	61.327	141	19.70	194	28.357	77	36.38	192
Dez. 5	61.468	223	17.76	184	28.434	124	34.46	206
15	61.691	300	15.92	165	28.558	170	32.40	215
25	61.991	369	14.27	142	28.728	210	30.25	214
35	62.360		12.85		28.938		28.11	
Mittl. Ort	59.087		5.66		26.900		45.83	
sec δ, tg δ	1.783		−1.476		1.014		+0.167	
a, *a′*	+5.0		−5.8		+2.9		−5.7	
b, *b′*	+0.03		+0.96		0.00		+0.96	

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Tag	634) ε Herculis				637) η Ophiuchi				639) ζ Draconis				640) α Herculis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	16h 57m		+31° 1′		17h 6m		−15° 38′		17h 8m		+65° 47′		17h 11m		+14° 27′	
	s		″		s		″		s		″		s		″	
Jan. 1	39.899	226	17.68	296	27.236	247	39.92	82	32.36	27	37.92	351	31.486	215	47.74	234
11	40.125	264	14.72	274	27.483	276	40.74	88	32.63	37	34.41	321	31.701	247	45.40	222
21	40.389	293	11.98	242	27.759	300	41.62	89	33.00	44	31.20	280	31.948	273	43.18	201
31	40.682	313	9.56	202	28.059	315	42.51	85	33.44	50	28.40	229	32.221	291	41.17	173
Feb. 10	40.995	326	7.54	154	28.374	323	43.36	77	33.94	55	26.11	169	32.512	302	39.44	138
20	41.321	331	6.00	100	28.697	326	44.13	67	34.49	57	24.42	104	32.814	308	38.06	98
März 1	41.652	329	5.00	44	29.023	323	44.80	53	35.06	59	23.38	37	33.122	307	37.08	55
11	41.981	320	4.56	12	29.346	317	45.33	39	35.65	57	23.01	32	33.429	301	36.53	10
21	42.301	306	4.68	67	29.663	307	45.72	23	36.22	55	23.33	98	33.730	291	36.43	33
31	42.607	288	5.35	117	29.970	294	45.95	8	36.77	50	24.31	158	34.021	278	36.76	74
Apr. 10	42.895	264	6.52	162	30.264	277	46.03	4	37.27	45	25.89	211	34.299	260	37.50	111
20	43.159	236	8.14	199	30.541	257	45.99	16	37.72	39	28.00	257	34.559	240	38.61	141
30	43.395	205	10.13	229	30.798	234	45.83	24	38.11	31	30.57	291	34.799	215	40.02	166
Mai 10	43.600	171	12.42	249	31.032	208	45.59	30	38.42	23	33.48	316	35.014	188	41.68	184
20	43.771	134	14.91	261	31.240	179	45.29	33	38.65	14	36.64	330	35.202	157	43.52	195
30	43.905	95	17.52	264	31.419	146	44.96	34	38.79	5	39.94	333	35.359	123	45.47	199
Juni 8*)	44.000	54	20.16	259	31.565	110	44.62	34	38.84	4	43.27	328	35.482	88	47.46	198
18	44.054	13	22.75	248	31.675	72	44.28	31	38.80	13	46.55	312	35.570	51	49.44	190
28	44.067	29	25.23	230	31.747	33	43.97	29	38.67	21	49.67	289	35.621	12	51.34	177
Juli 8	44.038	69	27.53	205	31.780	6	43.68	26	38.46	29	52.56	259	35.633	26	53.11	161
18	43.969	107	29.58	177	31.774	44	43.42	23	38.17	36	55.15	222	35.607	63	54.72	141
28	43.862	141	31.35	144	31.730	79	43.19	21	37.81	43	57.37	180	35.544	96	56.13	118
Aug. 7	43.721	171	32.79	108	31.651	111	42.98	19	37.38	47	59.17	134	35.448	126	57.31	93
17	43.550	193	33.87	71	31.540	136	42.79	18	36.91	52	60.51	85	35.322	151	58.24	66
27	43.357	209	34.58	31	31.404	153	42.61	16	36.39	55	61.36	34	35.171	168	58.90	37
Sept. 6	43.148	216	34.89	11	31.251	162	42.45	16	35.84	55	61.70	18	35.003	176	59.27	9
16	42.932	213	34.78	52	31.089	161	42.29	14	35.29	55	61.52	70	34.827	176	59.36	21
26	42.719	200	34.26	93	30.928	150	42.15	12	34.74	53	60.82	122	34.651	167	59.15	51
Okt. 6	42.519	178	33.33	133	30.778	129	42.03	7	34.21	50	59.60	173	34.484	147	58.64	81
16	42.341	146	32.00	172	30.649	98	41.96	2	33.71	44	57.87	220	34.337	120	57.83	110
26	42.195	105	30.28	208	30.551	58	41.94	6	33.27	37	55.67	263	34.217	83	56.73	140
Nov. 5	42.090	59	28.20	241	30.493	13	42.00	16	32.90	30	53.04	302	34.134	40	55.33	167
15	42.031	7	25.79	269	30.480	36	42.16	28	32.60	20	50.02	333	34.094	6	53.66	190
25	42.024	47	23.10	289	30.516	87	42.44	41	32.40	10	46.69	356	34.100	55	51.76	211
Dez. 5	42.071	101	20.21	303	30.603	137	42.85	54	32.30	1	43.13	369	34.155	103	49.65	226
15	42.172	152	17.18	308	30.740	183	43.39	65	32.31	11	39.44	371	34.258	150	47.39	235
25	42.324	200	14.10	302	30.923	224	44.04	76	32.42	21	35.73	360	34.408	191	45.04	235
35	42.524		11.08		31.147		44.80		32.63		32.13		34.599		42.69	
Mittl. Ort	41.235		31.57		28.557		32.29		35.16		53.83		32.748		59.35	
sec δ, tg δ	1.167		+0.602		1.038		−0.280		2.439		+2.225		1.033		+0.258	
a, *a′*	+2.3		−5.4		+3.4		−4.6		+0.2		−4.5		+2.7		−4.2	
b, *b′*	−0.01		+0.96		0.00		+0.97		−0.03		+0.97		0.00		+0.98	

*) Bei Stern 639) und 640) lies Juni 9

Tag	641) δ Herculis AR.	Diff.	641) δ Herculis Dekl.	Diff.	643) π Herculis AR.	Diff.	643) π Herculis Dekl.	Diff.
1932	$17^h\ 12^m$		$+24°\ 54'$		$17^h\ 12^m$		$+36°\ 52'$	
Jan. 1	12.939	212	52.85	277	39.191	212	51.32	315
11	13.151	247	50.08	259	39.403	255	48.17	292
21	13.398	276	47.49	233	39.658	289	45.25	259
31	13.674	297	45.16	197	39.947	315	42.66	218
Feb. 10	13.971	310	43.19	154	40.262	333	40.48	167
20	14.281	317	41.65	106	40.595	342	38.81	112
März 1	14.598	317	40.59	55	40.937	344	37.69	52
11	14.915	312	40.04	2	41.281	339	37.17	$\overline{8}$
21	15.227	302	40.02	$\overline{49}$	41.620	326	37.25	66
31	15.529	286	40.51	97	41.946	308	37.91	121
Apr. 10	15.815	266	41.48	140	42.254	285	39.12	169
20	16.081	243	42.88	177	42.539	256	40.81	211
30	16.324	216	44.65	206	42.795	224	42.92	243
Mai 10	16.540	186	46.71	226	43.019	188	45.35	268
20	16.726	152	48.97	240	43.207	148	48.03	282
30	16.878	116	51.37	245	43.355	105	50.85	287
Juni 9	16.994	77	53.82	242	43.460	61	53.72	284
18	17.071	37	56.24	233	43.521	16	56.56	274
28	17.108	$\overline{3}$	58.57	218	43.537	$\overline{30}$	59.30	255
Juli 8	17.105	43	60.75	197	43.507	74	61.85	231
18	17.062	82	62.72	172	43.433	115	64.16	201
28	16.980	117	64.44	144	43.318	154	66.17	167
Aug. 7	16.863	147	65.88	112	43.164	186	67.84	129
17	16.716	171	67.00	78	42.978	212	69.13	88
27	16.545	190	67.78	43	42.766	231	70.01	46
Sept. 6	16.355	198	68.21	5	42.535	241	70.47	2
16	16.157	198	68.26	$\overline{32}$	42.294	240	70.49	$\overline{43}$
26	15.959	189	67.94	70	42.054	230	70.06	88
Okt. 6	15.770	169	67.24	107	41.824	208	69.18	132
16	15.601	139	66.17	144	41.616	177	67.86	173
26	15.462	103	64.73	178	41.439	138	66.13	214
Nov. 5	15.359	59	62.95	210	41.301	90	63.99	249
15	15.300	10	60.85	237	41.211	37	61.50	280
25	15.290	$\overline{40}$	58.48	259	41.174	$\overline{18}$	58.70	303
Dez. 5	15.330	92	55.89	275	41.192	76	55.67	318
15	15.422	141	53.14	282	41.268	131	52.49	325
25	15.563	186	50.32	280	41.399	183	49.24	320
35	15.749		47.52		41.582		46.04	
Mittl. Ort	14.269		65.62		40.679		65.23	
sec δ, tg δ	1.103		+0.465		1.250		+0.750	
a, a'	+2.5		−4.1		+2.1		−4.1	
b, b'	−0.01		+0.98		−0.01		+0.98	

Tag	644) ϑ Ophiuchi AR.	Diff.	644) ϑ Ophiuchi Dekl.	Diff.	645) β Arae AR.	Diff.	645) β Arae Dekl.	Diff.
1932	$17^h\ 17^m$		$-24°\ 55'$		$17^h\ 19^m$		$-55°\ 28'$	
Jan. 1	48.411	252	66.81	24	36.136	366	8.19	145
11	48.663	286	67.05	34	36.502	419	6.74	120
21	48.949	311	67.39	41	36.921	463	5.54	93
31	49.260	328	67.80	45	37.384	495	4.61	65
Feb. 10	49.588	340	68.25	47	37.879	515	3.96	36
20	49.928	344	68.72	45	38.394	526	3.60	7
März 1	50.272	344	69.17	42	38.920	529	3.53	$\overline{21}$
11	50.616	339	69.59	38	39.449	522	3.74	47
21	50.955	330	69.97	32	39.971	510	4.21	71
31	51.285	318	70.29	26	40.481	490	4.92	94
Apr. 10	51.603	302	70.55	21	40.971	463	5.86	116
20	51.905	283	70.76	18	41.434	432	7.02	135
30	52.188	260	70.94	16	41.866	392	8.37	152
Mai 10	52.448	233	71.10	15	42.258	347	9.89	167
20	52.681	202	71.25	15	42.605	296	11.56	178
30	52.883	167	71.40	17	42.901	238	13.34	185
Juni 9	53.050	130	71.57	18	43.139	176	15.19	189
18	53.180	89	71.75	20	43.315	110	17.08	188
28	53.269	46	71.95	21	43.425	43	18.96	181
Juli 8	53.315	4	72.16	20	43.468	$\overline{25}$	20.77	169
18	53.319	$\overline{37}$	72.36	19	43.443	90	22.46	153
28	53.282	77	72.55	16	43.353	151	23.99	130
Aug. 7	53.205	112	72.71	10	43.202	204	25.29	102
17	53.093	140	72.81	4	42.998	248	26.31	71
27	52.953	161	72.85	$\overline{3}$	42.750	279	27.02	37
Sept. 6	52.792	172	72.82	12	42.471	295	27.39	$\overline{1}$
16	52.620	173	72.70	19	42.176	297	27.38	39
26	52.447	162	72.51	27	41.879	281	26.99	76
Okt. 6	52.285	142	72.24	33	41.598	248	26.23	110
16	52.143	110	71.91	36	41.350	200	25.13	140
26	52.033	71	71.55	36	41.150	139	23.73	165
Nov. 5	51.962	23	71.19	33	41.011	66	22.08	182
15	51.939	$\overline{29}$	70.86	27	40.945	$\overline{13}$	20.26	193
25	51.968	82	70.59	19	40.958	95	18.33	196
Dez. 5	52.050	134	70.40	8	41.053	177	16.37	190
15	52.184	184	70.32	$\overline{3}$	41.230	255	14.47	179
25	52.368	228	70.35	15	41.485	326	12.68	161
35	52.596		70.50		41.811		11.07	
Mittl. Ort	49.849		59.96		38.517		4.43	
sec δ, tg δ	1.103		−0.465		1.764		−1.453	
a, a'	+3.7		−3.7		+5.0		−3.5	
b, b'	+0.01		+0.98		+0.02		+0.98	

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Tag	648) δ Arae AR.		648) δ Arae Dekl.		651) α Arae AR.		651) α Arae Dekl.	
1932	17h 24m		−60° 37′		17h 26m		−49° 49′	
Jan. 1	54.55	40	49.56	174	32.787	321	32.90	122
11	54.95	47	47.82	148	33.108	371	31.68	100
21	55.42	52	46.34	120	33.479	408	30.68	78
31	55.94	55	45.14	88	33.887	437	29.90	54
Feb. 10	56.49	58	44.26	56	34.324	456	29.36	30
20	57.07	60	43.70	23	34.780	467	29.06	7
März 1	57.67	60	43.47	9	35.247	470	28.99	15
11	58.27	60	43.56	39	35.717	466	29.14	36
21	58.87	58	43.95	69	36.183	456	29.50	56
31	59.45	56	44.64	97	36.639	440	30.06	74
Apr. 10	60.01	54	45.61	122	37.079	419	30.80	92
20	60.55	50	46.83	146	37.498	392	31.72	108
30	61.05	44	48.29	167	37.890	360	32.80	123
Mai 10	61.49	40	49.96	184	38.250	321	34.03	135
20	61.89	34	51.80	198	38.571	278	35.38	146
30	62.23	27	53.78	208	38.849	228	36.84	153
Juni 9	62.50	20	55.86	213	[13] 39.077	174	38.37	158
18	[13] 62.70	13	57.99	212	39.251	116	39.95	158
28	62.83	4	60.11	205	39.367	57	41.53	155
Juli 8	62.87	3	62.16	194	39.424	4	43.08	145
18	62.84	11	64.10	176	39.420	62	44.53	133
28	62.73	18	65.86	151	39.358	118	45.86	114
Aug. 7	62.55	24	67.37	121	39.240	167	47.00	92
17	62.31	29	68.58	87	39.073	207	47.92	65
27	62.02	33	69.45	48	38.866	237	48.57	36
Sept. 6	61.69	35	69.93	8	38.629	254	48.93	4
16	61.34	35	70.01	35	38.375	256	48.97	29
26	60.99	33	69.66	77	38.119	245	48.68	61
Okt. 6	60.66	30	68.89	115	37.874	217	48.07	92
16	60.36	25	67.74	150	37.657	177	47.15	117
26	60.11	18	66.24	180	37.480	123	45.98	139
Nov. 5	59.93	10	64.44	202	37.357	59	44.59	155
15	59.83	0	62.42	215	37.298	10	43.04	164
25	59.83	8	60.27	221	37.308	82	41.40	166
Dez. 5	59.91	18	58.06	219	37.390	155	39.74	161
15	60.09	28	55.87	208	37.545	224	38.13	152
25	60.37	35	53.79	191	37.769	287	36.61	136
35	60.72		51.88		38.056		35.25	
Mittl. Ort	57.32		45.81		34.867		28.15	
sec δ, tg δ	2.039		−1.777		1.550		−1.184	
a, a'	+5.4		−3.1		+4.6		−2.9	
b, b'	+0.02		+0.99		+0.01		+0.99	

Tag	653) β Draconis AR.		653) β Draconis Dekl.		652) λ Scorpii AR.		652) λ Scorpii Dekl.	
1932	17h 28m		+52° 20′		17h 28m		−37° 3′	
Jan. 1	51.698	201	49.60	348	57.591	271	27.65	53
11	51.899	262	46.12	324	57.862	309	27.12	38
21	52.161	314	42.88	290	58.171	339	26.74	23
31	52.475	356	39.98	244	58.510	362	26.51	10
Feb. 10	52.831	387	37.54	190	58.872	377	26.41	2
20	53.218	408	35.64	129	59.249	385	26.43	13
März 1	53.626	416	34.35	63	59.634	387	26.56	23
11	54.042	416	33.72	2	60.021	384	26.79	31
21	54.458	404	33.74	67	60.405	377	27.10	38
31	54.862	383	34.41	128	60.782	364	27.48	45
Apr. 10	55.245	353	35.69	184	61.146	348	27.93	51
20	55.598	316	37.53	231	61.494	328	28.44	58
30	55.914	272	39.84	270	61.822	302	29.02	65
Mai 10	56.186	223	42.54	298	62.124	272	29.67	71
20	56.409	168	45.52	317	62.396	238	30.38	77
30	56.577	111	48.69	325	62.634	199	31.15	82
Juni 9	56.688	52	51.94	325	[14] 62.833	156	31.97	86
18	[14] 56.740	8	55.19	315	62.989	109	32.83	87
28	56.732	69	58.34	296	63.098	60	33.70	87
Juli 8	56.663	126	61.30	271	63.158	11	34.57	83
18	56.537	180	64.01	239	63.169	37	35.40	77
28	56.357	228	66.40	202	63.132	82	36.17	66
Aug. 7	56.129	272	68.42	161	63.050	124	36.83	53
17	55.857	307	70.03	115	62.926	158	37.36	38
27	55.550	331	71.18	67	62.768	183	37.74	19
Sept. 6	55.219	346	71.85	17	62.585	197	37.93	1
16	54.873	348	72.02	34	62.388	201	37.92	21
26	54.525	339	71.68	84	62.187	192	37.71	41
Okt. 6	54.186	317	70.84	134	61.995	170	37.30	60
16	53.869	283	69.50	183	61.825	136	36.70	74
26	53.586	238	67.67	228	61.689	93	35.96	86
Nov. 5	53.348	182	65.39	269	61.596	41	35.10	94
15	53.166	120	62.70	303	61.555	16	34.16	96
25	53.046	51	59.67	331	61.571	76	33.20	94
Dez. 5	52.995	19	56.36	350	61.647	135	32.26	87
15	53.014	90	52.86	357	61.782	191	31.39	77
25	53.104	162	49.29	353	61.973	241	30.62	64
35	53.266		45.76		62.214		29.98	
Mittl. Ort	53.722		63.65		59.255		21.57	
sec δ, tg δ	1.637		+1.296		1.253		−0.755	
a, a'	+1.4		−2.7		+4.1		−2.7	
b, b'	−0.01		+0.99		+0.01		+0.99	

Tag	656) α Ophiuchi AR.		656) α Ophiuchi Dekl.		654) ϑ Scorpii AR.		654) ϑ Scorpii Dekl.		658) ξ Serpentis AR.		658) ξ Serpentis Dekl.		664) ω Draconis AR.		664) ω Draconis Dekl.	
1932	17h 31m		+12° 36′		17h 32m		−42° 57′		17h 33m		−15° 21′		17h 37m		+68° 46′	
Jan. 1	45.306	198	18.16	223	23.912	286	29.54	89	40.116	222	34.96	71	17.30	22	68.51	356
11	45.504	232	15.93	214	24.198	328	28.65	72	40.338	255	35.67	75	17.52	33	64.95	334
21	45.736	259	13.79	195	24.526	363	27.93	53	40.593	280	36.42	75	17.85	42	61.61	299
31	45.995	279	11.84	169	24.889	388	27.40	36	40.873	300	37.17	70	18.27	51	58.62	254
Feb. 10	46.274	293	10.15	137	25.277	406	27.04	19	41.173	312	37.87	63	18.78	57	56.08	198
20	46.567	302	8.78	99	25.683	415	26.85	2	41.485	319	38.50	51	19.35	61	54.10	136
März 1	46.869	304	7.79	59	26.098	418	26.83	13	41.804	322	39.01	37	19.96	64	52.74	69
11	47.173	303	7.20	15	26.516	416	26.96	28	42.126	320	39.38	23	20.60	65	52.05	1
21	47.476	296	7.05	27	26.932	409	27.24	41	42.446	314	39.61	7	21.25	63	52.04	65
31	47.772	285	7.32	66	27.341	395	27.65	53	42.760	304	39.68	8	21.88	59	52.69	129
Apr. 10	48.057	272	7.98	103	27.736	379	28.18	65	43.064	291	39.60	21	22.47	54	53.98	186
20	48.329	253	9.01	134	28.115	357	28.83	77	43.355	276	39.39	30	23.01	48	55.84	236
30	48.582	232	10.35	159	28.472	329	29.60	87	43.631	255	39.09	39	23.49	40	58.20	277
Mai 10	48.814	206	11.94	178	28.801	296	30.47	98	43.886	230	38.70	44	23.89	31	60.97	307
20	49.020	176	13.72	190	29.097	259	31.45	107	44.116	203	38.26	46	24.20	21	64.04	328
30	49.196	144	15.62	196	29.356	216	32.52	113	44.319	171	37.80	46	24.41	11	67.32	338
Juni 9	14 49.340	109	17.58	194	15 29.572	169	33.65	118	15 44.490	136	37.34	43	16 24.52	1	70.70	339
18	49.449	71	19.52	189	29.741	119	34.83	120	44.626	97	36.91	40	24.53	9	74.09	330
28	49.520	32	21.41	178	29.860	65	36.03	119	44.723	56	36.51	35	24.44	20	77.39	312
Juli 8	49.552	7	23.19	162	29.925	11	37.22	113	44.779	16	36.16	30	24.24	29	80.51	286
18	49.545	46	24.81	144	29.936	42	38.35	105	44.795	24	35.86	24	23.95	37	83.37	255
28	49.499	82	26.25	122	29.894	92	39.40	91	44.771	63	35.62	20	23.58	46	85.92	217
Aug. 7	49.417	114	27.47	99	29.802	136	40.31	74	44.708	97	35.42	17	23.12	52	88.09	174
17	49.303	142	28.46	73	29.666	174	41.05	54	44.611	127	35.25	14	22.60	58	89.83	128
27	49.161	161	29.19	46	29.492	202	41.59	30	44.484	148	35.11	11	22.02	62	91.11	78
Sept. 6	49.000	173	29.65	19	29.290	218	41.89	5	44.336	162	35.00	9	21.40	64	91.89	27
16	48.827	176	29.84	9	29.072	222	41.94	21	44.174	165	34.91	8	20.76	65	92.16	26
26	48.651	170	29.75	37	28.850	213	41.73	47	44.009	159	34.83	5	20.11	63	91.90	78
Okt. 6	48.481	154	29.38	67	28.637	190	41.26	71	43.850	141	34.78	2	19.48	61	91.12	130
16	48.327	128	28.71	95	28.447	155	40.55	92	43.709	115	34.76	2	18.87	56	89.82	181
26	48.199	95	27.76	123	28.292	108	39.63	109	43.594	79	34.78	8	18.31	49	88.01	228
Nov. 5	48.104	55	26.53	149	28.184	52	38.54	121	43.515	37	34.86	17	17.82	41	85.73	270
15	48.049	10	25.04	174	28.132	9	37.33	128	43.478	11	35.03	26	17.41	31	83.03	307
25	48.039	38	23.30	194	28.141	73	36.05	128	43.489	60	35.29	36	17.10	21	79.96	336
Dez. 5	48.077	86	21.36	210	28.214	137	34.77	123	43.549	109	35.65	47	16.89	9	76.60	356
15	48.163	131	19.26	220	28.351	199	33.54	115	43.658	156	36.12	57	16.80	3	73.04	365
25	48.294	174	17.06	222	28.550	254	32.39	101	43.814	198	36.69	66	16.83	14	69.39	362
35	48.468		14.84		28.804		31.38		44.012		37.35		16.97		65.77	
Mittl. Ort	46.612		29.29		25.736		23.80		41.470		26.53		20.80		82.41	
sec δ, tg δ	1.025		+0.224		1.366		−0.931		1.037		−0.275		2.764		+2.577	
a, a′	+2.8		−2.5		+4.3		−2.4		+3.4		−2.3		−0.4		−2.0	
b, b′	0.00		+0.99		+0.01		+0.99		0.00		+0.99		−0.02		+1.00	

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Tag	663) ι Herculis				661) η Pavonis				665) β Ophiuchi				670) ψ Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	17h 37m		+46° 2'		17h 39m		−64° 41'		17h 40m		+4° 35'		17h 43m		+72° 10'	
Jan. 1	30.843	185	16.36	339	0.05	42	42.00	205	5.443	195	28.83	180	4.38	21	44.31	358
11	31.028	238	12.97	317	0.47	50	39.95	180	5.638	229	27.03	174	4.59	35	40.73	336
21	31.266	283	9.80	286	0.97	55	38.15	152	5.867	255	25.29	161	4.94	46	37.37	303
31	31.549	321	6.94	244	1.52	62	36.63	120	6.122	275	23.68	142	5.40	57	34.34	258
Feb. 10	31.870	348	4.50	193	2.14	64	35.43	86	6.397	290	22.26	116	5.97	65	31.76	205
20	32.218	367	2.57	135	2.78	67	34.57	52	6.687	299	21.10	85	6.62	70	29.71	143
März 1	32.585	377	1.22	72	3.45	68	34.05	17	6.986	302	20.25	52	7.32	74	28.28	77
11	32.962	377	0.50	8	4.13	68	33.88	18	7.288	301	19.73	17	8.06	75	27.51	10
21	33.339	369	0.42	55	4.81	67	34.06	50	7.589	297	19.56	19	8.81	73	27.41	57
31	33.708	353	0.97	115	5.48	65	34.56	82	7.886	288	19.75	52	9.54	69	27.98	121
April 10	34.061	330	2.12	170	6.13	62	35.38	112	8.174	276	20.27	82	10.23	64	29.19	179
20	34.391	300	3.82	217	6.75	58	36.50	140	8.450	260	21.09	109	10.87	56	30.98	229
30	34.691	264	5.99	255	7.33	53	37.90	165	8.710	240	22.18	129	11.43	46	33.27	271
Mai 10	34.955	223	8.54	285	7.86	47	39.55	187	8.950	216	23.47	145	11.89	36	35.98	302
20	35.178	177	11.39	305	8.33	40	41.42	204	9.166	189	24.92	154	12.25	25	39.00	324
30	35.355	128	14.44	315	8.73	33	43.46	218	9.355	157	26.46	159	12.50	12	42.24	336
Juni 9	[16]35.483	76	17.59	316	[16]9.06	25	45.64	226	[17]9.512	123	28.05	158	[17]12.62	1	45.60	337
18	35.559	23	20.75	308	9.31	16	47.90	229	9.635	87	29.63	153	12.63	12	48.97	329
28	35.582	31	23.83	292	9.47	7	50.19	225	9.722	47	31.16	144	12.51	24	52.26	313
Juli 8	35.551	83	26.75	269	9.54	3	52.44	214	9.769	8	32.60	132	12.27	35	55.39	289
18	35.468	133	29.44	240	9.51	11	54.58	198	9.777	31	33.92	116	11.92	46	58.28	258
28	35.335	179	31.84	205	9.40	19	56.56	174	9.746	68	35.08	99	11.46	55	60.86	221
Aug. 7	35.156	219	33.89	165	9.21	27	58.30	145	9.678	101	36.07	81	10.91	63	63.07	179
17	34.937	253	35.54	123	8.94	33	59.75	109	9.577	129	36.88	62	10.28	69	64.86	134
27	34.684	277	36.77	77	8.61	37	60.84	69	9.448	151	37.50	41	9.59	74	66.20	84
Sept. 6	34.407	293	37.54	29	8.24	41	61.53	25	9.297	163	37.91	21	8.85	77	67.04	34
16	34.114	297	37.83	20	7.83	41	61.78	19	9.134	168	38.12	1	8.08	78	67.38	18
26	33.817	290	37.63	68	7.42	41	61.59	65	8.966	164	38.11	22	7.30	77	67.20	71
Okt. 6	33.527	272	36.95	117	7.01	37	60.94	109	8.802	148	37.89	44	6.53	74	66.49	123
16	33.255	242	35.78	165	6.64	31	59.85	148	8.654	123	37.45	67	5.79	69	65.26	174
26	33.013	203	34.13	209	6.33	23	58.37	182	8.531	92	36.78	89	5.10	61	63.52	221
Nov. 5	32.810	154	32.04	250	6.10	15	56.55	210	8.439	52	35.89	110	4.49	51	61.31	265
15	32.656	98	29.54	285	5.95	5	54.45	229	8.387	8	34.79	130	3.98	41	58.66	302
25	32.558	38	26.69	313	5.90	6	52.16	240	8.379	38	33.49	148	3.57	29	55.64	332
Dez. 5	32.520	26	23.56	333	5.96	16	49.76	241	8.417	85	32.01	163	3.28	15	52.32	353
15	32.546	88	20.23	343	6.12	26	47.35	235	8.502	130	30.38	173	3.13	1	48.79	363
25	32.634	150	16.80	342	6.38	37	45.00	220	8.632	172	28.65	178	3.12	13	45.16	362
35	32.784		13.38		6.75		42.80		8.804		26.87		3.25		41.54	
Mittl. Ort	32.670		29.60		3.21		37.40		6.744		39.19		8.59		57.77	
sec δ, tg δ	1.441		+1.037		2.339		−2.115		1.003		+0.080		3.268		+3.111	
a, a'	+1.7		−2.0		+5.9		−1.8		+3.0		−1.7		−1.1		−1.5	
b, b'	−0.01		+1.00		+0.01		+1.00		0.00		+1.00		−0.02		+1.00	

Tag	667) μ Herculis AR.		667) μ Herculis Dekl.		671) ξ Draconis AR.		671) ξ Draconis Dekl.		675) 35 Draconis AR.		675) 35 Draconis Dekl.		672) ϑ Herculis AR.		672) ϑ Herculis Dekl.	
1932	17h 43m		+27° 45′		17h 52m		+56° 52′		17h 52m		+76° 57′		17h 53m		+37° 15′	
Jan. 1	46.290	179	21.50	287	18.751	167	45.43	355	23.54	20	70.18	353	53.568	165	18.71	316
11	46.469	218	18.63	272	18.918	238	41.88	337	23.74	39	66.65	335	53.733	211	15.55	300
21	46.687	251	15.91	249	19.156	302	38.51	306	24.13	56	63.30	304	53.944	251	12.55	275
31	46.938	278	13.42	214	19.458	355	35.45	263	24.69	70	60.26	262	54.195	283	9.80	238
Feb. 10	47.216	297	11.28	173	19.813	397	32.82	212	25.39	82	57.64	210	54.478	309	7.42	192
20	47.513	311	9.55	125	20.210	429	30.70	153	26.21	91	55.54	151	54.787	327	5.50	140
März 1	47.824	317	8.30	72	20.639	448	29.17	89	27.12	96	54.03	86	55.114	338	4.10	82
11	48.141	318	7.58	18	21.087	455	28.28	21	28.08	99	53.17	20	55.452	341	3.28	22
21	48.459	313	7.40	36	21.542	449	28.07	45	29.07	98	52.97	47	55.793	338	3.06	37
31	48.772	303	7.76	88	21.991	432	28.52	109	30.05	93	53.44	111	56.131	328	3.43	94
Apr. 10	49.075	288	8.64	134	22.423	405	29.61	167	30.98	85	54.55	169	56.459	312	4.37	148
20	49.363	268	9.98	175	22.828	367	31.28	219	31.83	75	56.24	220	56.771	290	5.85	193
30	49.631	243	11.73	209	23.195	322	33.47	262	32.58	62	58.44	262	57.061	263	7.78	232
Mai 10	49.874	214	13.82	234	23.517	268	36.09	295	33.20	48	61.06	296	57.324	230	10.10	261
20	50.088	181	16.16	252	23.785	209	39.04	319	33.68	33	64.02	320	57.554	193	12.71	283
30	50.269	145	18.68	260	23.994	146	42.23	333	34.01	16	67.22	333	57.747	151	15.54	295
Juni 9	50.414	105	21.28	262	24.140	79	45.56	337	34.17	1	70.55	337	57.898	107	18.49	299
18*)	[17] 50.519	63	23.90	257	[20] 24.219	11	48.93	332	[20] 34.16	17	73.92	331	[20] 58.005	61	21.48	293
28	50.582	20	26.47	243	24.230	58	52.25	317	33.99	33	77.23	317	58.066	12	24.41	281
Juli 8	50.602	23	28.90	224	24.172	124	55.42	295	33.66	49	80.40	294	58.078	35	27.22	261
18	50.579	65	31.14	201	24.048	187	58.37	266	33.17	63	83.34	266	58.043	82	29.83	236
28	50.514	104	33.15	172	23.861	246	61.03	232	32.54	76	86.00	231	57.961	126	32.19	205
Aug. 7	50.410	139	34.87	141	23.615	297	63.35	192	31.78	86	88.31	190	57.835	164	34.24	170
17	50.271	169	36.28	106	23.318	339	65.27	148	30.92	96	90.21	147	57.671	197	35.94	132
27	50.102	192	37.34	69	22.979	373	66.75	100	29.96	103	91.68	99	57.474	223	37.26	90
Sept. 6	49.910	207	38.03	31	22.606	393	67.75	51	28.93	107	92.67	49	57.251	240	38.16	47
16	49.703	211	38.34	9	22.213	402	68.26	1	27.86	109	93.16	2	57.011	247	38.63	2
26	49.492	206	38.25	49	21.811	398	68.25	54	26.77	108	93.14	54	56.764	244	38.65	43
Okt. 6	49.286	192	37.76	88	21.413	381	67.71	106	25.69	104	92.60	106	56.520	230	38.22	89
16	49.094	168	36.88	128	21.032	349	66.65	156	24.65	98	91.54	157	56.290	206	37.33	134
26	48.926	134	35.60	165	20.683	305	65.09	205	23.67	88	89.97	205	56.084	173	35.99	176
Nov. 5	48.792	93	33.95	199	20.378	250	63.04	249	22.79	77	87.92	249	55.911	130	34.23	216
15	48.699	47	31.96	231	20.128	185	60.55	288	22.02	64	85.43	287	55.781	82	32.07	251
25	48.652	2	29.65	257	19.943	114	57.67	320	21.38	46	82.56	319	55.699	30	29.56	280
Dez. 5	48.654	53	27.08	275	19.829	36	54.47	343	20.92	29	79.37	343	55.669	26	26.76	302
15	48.707	104	24.33	286	19.793	42	51.04	356	20.63	11	75.94	354	55.695	81	23.74	315
25	48.811	151	21.47	288	19.835	120	47.48	357	20.52	9	72.40	356	55.776	134	20.59	317
35	48.962		18.59		19.955		43.91		20.61		68.84		55.910		17.42	
Mittl. Ort	47.751		33.47		21.161		58.03		29.41		82.85		55.224		30.68	
sec δ, tg δ	1.130		+0.526		1.830		+1.533		4.436		+4.322		1.256		+0.761	
a, *a′*	+2.4		−1.4		+1.0		−0.7		−2.7		−0.7		+2.1		−0.5	
b, *b′*	0.00		+1.00		0.00		+1.00		−0.01		+1.00		0.00		+1.00	

*) Bei Stern 671), 675) und 672) lies Juni 19

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Tag	676) γ Draconis AR.		676) γ Draconis Dekl.		673) ν Ophiuchi AR.		673) ν Ophiuchi Dekl.		677) 67 Ophiuchi AR.		677) 67 Ophiuchi Dekl.		679) γ Sagittarii AR.		679) γ Sagittarii Dekl.	
1932	17h 54m		+51° 29′		17h 55m		−9° 46′		17h 57m		+2° 55′		18h 1m		−30° 25′	
	s		″		s		″		s		″		s		″	
Jan. 1	59.464	162	33.91	348	15.584	195	9.70	95	13.003	181	50.04	166	24.775	219	44.44	33
11	59.626	223	30.43	331	15.779	229	10.65	95	13.184	215	48.38	162	24.994	259	44.11	24
21	59.849	277	27.12	302	16.008	257	11.60	90	13.399	243	46.76	151	25.253	290	43.87	19
31	60.126	323	24.10	261	16.265	278	12.50	82	13.642	266	45.25	132	25.543	316	43.68	12
Feb. 10	60.449	360	21.49	211	16.543	294	13.32	69	13.908	282	43.93	109	25.859	334	43.56	7
20	60.809	387	19.38	153	16.837	304	14.01	52	14.190	293	42.84	81	26.193	347	43.49	
März 1	61.196	403	17.85	90	17.141	310	14.53	32	14.483	299	42.03	49	26.540	354	43.44	3
11	61.599	409	16.95	24	17.451	311	14.85	12	14.782	302	41.54	15	26.894	357	43.41	2
21	62.008	405	16.71	41	17.762	309	14.97	10	15.084	299	41.39	19	27.251	355	43.39	1
31	62.413	391	17.12	103	18.071	303	14.87	29	15.383	294	41.58	50	27.606	350	43.38	0
Apr. 10	62.804	369	18.15	161	18.374	293	14.58	47	15.677	284	42.08	80	27.956	340	43.38	2
20	63.173	338	19.76	212	18.667	280	14.11	63	15.961	270	42.88	105	28.296	326	43.40	6
30	63.511	300	21.88	255	18.947	263	13.48	74	16.231	253	43.93	126	28.622	307	43.46	9
Mai 10	63.811	255	24.43	288	19.210	241	12.74	81	16.484	231	45.19	141	28.929	283	43.55	15
20	64.066	205	27.31	312	19.451	214	11.93	86	16.715	204	46.60	151	29.212	254	43.70	21
30	64.271	150	30.43	326	19.665	185	11.07	86	16.919	174	48.11	155	29.466	220	43.91	29
Juni 9	64.421	91	33.69	331	19.850	150	10.21	83	17.093	140	49.66	154	29.686	181	44.20	35
19	64.512	32	37.00	325	20.000	112	9.38	78	17.233	103	51.20	150	29.867	138	44.55	41
28	64.544	29	40.25	312	20.112	72	8.60	72	17.336	64	52.70	141	30.005	92	44.96	47
Juli 8	64.515	88	43.37	291	20.184	32	7.88	63	17.400	24	54.11	129	30.097	45	45.43	49
18	64.427	145	46.28	263	20.216	9	7.25	53	17.424	16	55.40	115	30.142	3	45.92	50
28	64.282	198	48.91	230	20.207	49	6.72	45	17.408	55	56.55	98	30.139	49	46.42	49
Aug. 7	64.084	244	51.21	191	20.158	85	6.27	35	17.353	91	57.53	80	30.090	90	46.91	44
17	63.840	284	53.12	147	20.073	117	5.92	27	17.262	120	58.33	62	30.000	127	47.35	37
27	63.556	314	54.59	102	19.956	141	5.65	18	17.142	145	58.95	44	29.873	157	47.72	26
Sept. 6	63.242	334	55.61	53	19.815	156	5.47	11	16.997	160	59.39	24	29.716	177	47.98	15
16	62.908	342	56.14	3	19.659	164	5.36	3	16.837	167	59.63	4	29.539	185	48.13	2
26	62.566	340	56.17	49	19.495	161	5.33	5	16.670	165	59.67	16	29.354	184	48.15	13
Okt. 6	62.226	323	55.68	99	19.334	148	5.38	13	16.505	152	59.51	36	29.170	170	48.02	25
16	61.903	296	54.69	149	19.186	125	5.51	21	16.353	131	59.15	57	29.000	144	47.77	37
26	61.607	257	53.20	197	19.061	94	5.72	32	16.222	100	58.58	77	28.856	108	47.40	47
Nov. 5	61.350	207	51.23	241	18.967	54	6.04	42	16.122	63	57.81	98	28.748	65	46.93	53
15	61.143	149	48.82	280	18.913	10	6.46	53	16.059	21	56.83	116	28.683	15	46.40	56
25	60.994	85	46.02	311	18.903	36	6.99	65	16.038	24	55.67	134	28.668	38	45.84	56
Dez. 5	60.909	17	42.91	334	18.939	83	7.64	75	16.062	71	54.33	148	28.706	92	45.28	53
15	60.892	52	39.57	348	19.022	129	8.39	84	16.133	115	52.85	158	28.798	144	44.75	48
25	60.944	120	36.09	351	19.151	171	9.23	90	16.248	157	51.27	164	28.942	191	44.27	40
35	61.064		32.58		19.322		10.13		16.405		49.63		29.133		43.87	
Mittl. Ort	61.591		46.23		16.923		0.35		14.326		60.20		26.307		36.22	
sec δ, tg δ	1.606		+1.257		1.015		−0.172		1.001		+0.051		1.160		−0.587	
a, *a′*	+1.4		−0.4		+3.3		−0.4		+3.0		−0.2		+3.9		+0.1	
b, *b′*	0.00		+1.00		0.00		+1.00		0.00		+1.00		0.00		+1.00	

Tag	680) 72 Ophiuchi				681) o Herculis				682) μ Sagittarii				688) η Serpentis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	18ʰ 4ᵐ		+9° 32′		18ʰ 4ᵐ		+28° 44′		18ʰ 9ᵐ		−21° 4′		18ʰ 17ᵐ		−2° 55′	
Jan. 1	6.165	169	59.68	199	51.841	156	55.68	286	40.347	197	50.99	20	46.100	167	14.48	129
11	6.334	205	57.69	193	51.997	197	52.82	274	40.544	232	51.19	23	46.267	200	15.77	126
21	6.539	234	55.76	178	52.194	234	50.08	253	40.776	262	51.42	25	46.467	230	17.03	118
31	6.773	257	53.98	157	52.428	263	47.55	220	41.038	286	51.67	23	46.697	255	18.21	104
Feb. 10	7.030	276	52.41	129	52.691	286	45.35	181	41.324	305	51.90	20	46.952	273	19.25	86
20	7.306	290	51.12	95	52.977	304	43.54	134	41.629	317	52.10	13	47.225	286	20.11	63
März 1	7.596	297	50.17	57	53.281	314	42.20	82	41.946	326	52.23	6	47.511	296	20.74	37
11	7.893	300	49.60	18	53.595	319	41.38	27	42.272	330	52.29	4	47.807	301	21.11	9
21	8.193	300	49.42	22	53.914	318	41.11	28	42.602	329	52.25	12	48.108	303	21.20	19
31	8.493	294	49.64	60	54.232	312	41.39	80	42.931	326	52.13	21	48.411	300	21.01	45
Apr. 10	8.787	286	50.24	95	54.544	300	42.19	129	43.257	318	51.92	28	48.711	294	20.56	70
20	9.073	272	51.19	126	54.844	284	43.48	172	43.575	307	51.64	33	49.005	283	19.86	91
30	9.345	254	52.45	152	55.128	261	45.20	209	43.882	290	51.31	36	49.288	269	18.95	107
Mai 10	9.599	233	53.97	170	55.389	234	47.29	237	44.172	268	50.95	36	49.557	249	17.88	120
20	9.832	206	55.67	183	55.623	202	49.66	257	44.440	243	50.59	33	49.806	224	16.68	127
30	10.038	175	57.50	190	55.825	166	52.23	269	44.683	211	50.26	29	50.030	196	15.41	129
Juni 9	10.213	140	59.40	191	55.991	126	54.92	273	44.894	176	49.97	24	50.226	163	14.12	128
19	10.353	103	61.31	186	56.117	84	57.65	270	45.070	137	49.73	17	50.389	126	12.84	123
28	[23] 10.456	63	63.17	177	[23] 56.201	40	60.35	259	[24] 45.207	94	49.56	10	[26] 50.515	86	11.61	115
Juli 8	10.519	23	64.94	163	56.241	5	62.94	242	45.301	50	49.46	4	50.601	45	10.46	103
18	10.542	18	66.57	147	56.236	48	65.36	220	45.351	5	49.42	2	50.646	3	9.43	91
28	10.524	57	68.04	127	56.188	91	67.56	192	45.356	38	49.44	6	50.649	37	8.52	77
Aug. 7	10.467	93	69.31	106	56.097	129	69.48	162	45.318	77	49.50	9	50.612	75	7.75	63
17	10.374	124	70.37	83	55.968	161	71.10	127	45.241	113	49.59	9	50.537	107	7.12	48
27	10.250	148	71.20	59	55.807	187	72.37	91	45.128	141	49.68	8	50.430	135	6.64	33
Sept. 6	10.102	166	71.79	33	55.620	205	73.28	53	44.987	160	49.76	6	50.295	154	6.31	19
16	9.936	173	72.12	7	55.415	214	73.81	12	44.827	170	49.82	2	50.141	164	6.12	4
26	9.763	171	72.19	18	55.201	213	73.93	28	44.657	170	49.84	2	49.977	165	6.08	11
Okt. 6	9.592	162	72.01	44	54.988	201	73.65	69	44.487	159	49.82	5	49.812	156	6.19	25
16	9.430	141	71.57	71	54.787	180	72.96	109	44.328	136	49.77	9	49.656	136	6.44	39
26	9.289	111	70.86	96	54.607	150	71.87	148	44.192	105	49.68	10	49.520	109	6.83	55
Nov. 5	9.178	75	69.90	121	54.457	112	70.39	185	44.087	66	49.58	9	49.411	74	7.38	70
15	9.103	34	68.69	144	54.345	68	68.54	218	44.021	20	49.49	7	49.337	34	8.08	84
25	9.069	11	67.25	165	54.277	20	66.36	246	44.001	28	49.42	3	49.303	11	8.92	98
Dez. 5	9.080	57	65.60	181	54.257	30	63.90	267	44.029	77	49.39	2	49.314	55	9.90	110
15	9.137	102	63.79	192	54.287	80	61.23	281	44.106	125	49.41	8	49.369	100	11.00	120
25	9.239	145	61.87	197	54.367	128	58.42	285	44.231	170	49.49	14	49.469	142	12.20	124
35	9.384		59.90		54.495		55.57		44.401		49.63		49.611		13.44	
Mittl. Ort	7.514		70.11		53.370		66.83		41.763		41.97		47.435		4.62	
sec δ, tg δ	1.014		+0.168		1.141		+0.549		1.072		−0.385		1.001		−0.051	
a, a'	+2.8		+0.4		+2.3		+0.4		+3.6		+0.8		+3.1		+1.6	
b, b'	0.00		+1.00		0.00		+1.00		0.00		+1.00		0.00		+1.00	

Scheinbare Sternörter 1932

Tag	689) ε Sagittarii AR.		Dekl.		690) 109 Herculis AR.		Dekl.		691) α Telescopii AR.		Dekl.		695) χ Draconis AR.		Dekl.	
1932	18h 19m		−34° 25′		18h 20m		+21° 43′		18h 21m		−46° 0′		18h 22m		+72° 41′	
Jan. 1	37.916	207	15.44	67	46.523	144	64.37	255	54.022	232	36.33	138	12.31	9	63.47	359
11	38.123	249	14.77	60	46.667	184	61.82	246	54.254	283	34.95	127	12.40	23	59.88	348
21	38.372	285	14.17	53	46.851	217	59.36	229	54.537	326	33.68	114	12.63	37	56.40	324
31	38.657	314	13.64	46	47.068	246	57.07	203	54.863	362	32.54	101	13.00	49	53.16	289
Feb. 10	38.971	336	13.18	39	47.314	269	55.04	168	55.225	390	31.53	85	13.49	58	50.27	243
20	39.307	352	12.79	33	47.583	287	53.36	126	55.615	410	30.68	69	14.07	67	47.84	187
März 1	39.659	363	12.46	29	47.870	300	52.10	80	56.025	424	29.99	53	14.74	72	45.97	126
11	40.022	370	12.17	23	48.170	307	51.30	31	56.449	432	29.46	36	15.46	76	44.71	60
21	40.392	371	11.94	18	48.477	308	50.99	19	56.881	435	29.10	20	16.22	77	44.11	8
31	40.763	369	11.76	13	48.785	306	51.18	67	57.316	432	28.90	3	16.99	75	44.19	73
Apr. 10	41.132	362	11.63	6	49.091	298	51.85	113	57.748	423	28.87	15	17.74	71	44.92	136
20	41.494	349	11.57	1	49.389	286	52.98	153	58.171	409	29.02	32	18.45	65	46.28	191
30	41.843	332	11.58	9	49.675	267	54.51	186	58.580	388	29.34	50	19.10	57	48.19	240
Mai 10	42.175	310	11.67	20	49.942	245	56.37	213	58.968	360	29.84	68	19.67	47	50.59	280
20	42.485	280	11.87	29	50.187	216	58.50	233	59.328	325	30.52	84	20.14	36	53.39	310
30	42.765	247	12.16	40	50.403	185	60.83	245	59.653	285	31.36	100	20.50	25	56.49	331
Juni 9	43.012	206	12.56	49	50.588	147	63.28	250	59.938	238	32.36	112	20.75	12	59.80	342
19	43.218	163	13.05	58	50.735	108	65.78	246	60.176	185	33.48	123	20.87	0	63.22	344
28	[27] 43.381	115	13.63	66	[27] 50.843	66	68.24	237	[27] 60.361	129	34.71	130	[27] 20.87	13	66.66	336
Juli 8	43.496	64	14.29	71	50.909	22	70.61	223	60.490	69	36.01	133	20.74	25	70.02	319
18	43.560	14	15.00	72	50.931	21	72.84	204	60.559	10	37.34	131	20.49	37	73.21	297
28	43.574	36	15.72	70	50.910	62	74.88	181	60.569	48	38.65	124	20.12	48	76.18	267
Aug. 7	43.538	82	16.42	66	50.848	101	76.69	153	60.521	103	39.89	112	19.64	58	78.85	230
17	43.456	123	17.08	57	50.747	135	78.22	123	60.418	151	41.01	96	19.06	66	81.15	190
27	43.333	156	17.65	45	50.612	162	79.45	91	60.267	191	41.97	75	18.40	72	83.05	145
Sept. 6	43.177	180	18.10	31	50.450	182	80.36	57	60.076	219	42.72	50	17.68	77	84.50	96
16	42.997	193	18.41	14	50.268	193	80.93	22	59.857	236	43.22	22	16.91	80	85.46	45
26	42.804	195	18.55	3	50.075	194	81.15	14	59.621	238	43.44	7	16.11	80	85.91	8
Okt. 6	42.609	184	18.52	21	49.881	186	81.01	49	59.383	226	43.37	36	15.31	79	85.83	61
16	42.425	162	18.31	39	49.695	167	80.52	86	59.157	200	43.01	65	14.52	75	85.22	114
26	42.263	127	17.92	53	49.528	141	79.66	121	58.957	162	42.36	90	13.77	70	84.08	165
Nov. 5	42.136	85	17.39	65	49.387	106	78.45	154	58.795	112	41.46	112	13.07	62	82.43	215
15	42.051	36	16.74	74	49.281	65	76.91	184	58.683	55	40.34	130	12.45	52	80.28	259
25	42.015	18	16.00	78	49.216	21	75.07	210	58.628	8	39.04	141	11.93	40	77.69	297
Dez. 5	42.033	73	15.22	80	49.195	26	72.97	232	58.636	72	37.63	147	11.53	27	74.72	327
15	42.106	127	14.42	78	49.221	73	70.65	246	58.708	137	36.16	148	11.26	14	71.45	347
25	42.233	178	13.64	73	49.294	118	68.19	253	58.845	197	34.68	145	11.12	0	67.98	357
35	42.411		12.91		49.412		65.66		59.042		33.23		11.12		64.41	
Mittl. Ort	39.501		6.58		47.988		74.72		55.890		27.74		17.06		73.61	
sec δ, tg δ	1.212		−0.685		1.077		+0.399		1.440		−1.036		3.363		+3.211	
a, *a′*	+4.0		+1.7		+2.5		+1.8		+4.5		+1.9		−1.2		+1.9	
b, *b′*	0.00		+1.00		0.00		+1.00		−0.01		+1.00		+0.02		+1.00	

Tag	694) *b* Draconis				699) α Lyrae				698) ζ Pavonis				703) 110 Herculis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	18h 22m		+58° 45′		18h 34m		+38° 42′		18h 35m		−71° 29′		18h 42m		+20° 28′	
Jan. 1	52.360	111	28.65	355	36.353	115	60.00	313	1.89	37	31.31	272	42.602	123	38.30	243
11	52.471	189	25.10	345	36.468	164	56.87	306	2.26	48	28.59	259	42.725	161	35.87	238
21	52.660	260	21.65	321	36.632	209	53.81	286	2.74	59	26.00	239	42.886	197	33.49	223
31	52.920	323	18.44	285	36.841	248	50.95	256	3.33	68	23.61	213	43.083	227	31.26	200
Feb. 10	53.243	377	15.59	238	37.089	280	48.39	215	4.01	75	21.48	182	43.310	253	29.26	167
20	53.620	419	13.21	183	37.369	307	46.24	166	4.76	81	19.66	148	43.563	273	27.59	129
März 1	54.039	450	11.38	122	37.676	327	44.58	112	5.57	86	18.18	113	43.836	289	26.30	85
11	54.489	467	10.16	56	38.003	339	43.46	53	6.43	88	17.05	75	44.125	300	25.45	37
21	54.956	472	9.60	12	38.342	345	42.93	8	7.31	89	16.30	37	44.425	306	25.08	11
31	55.428	464	9.72	77	38.687	344	43.01	66	8.20	88	15.93	2	44.731	307	25.19	59
Apr. 10	55.892	445	10.49	138	39.031	335	43.67	123	9.08	87	15.95	40	45.038	303	25.78	104
20	56.337	413	11.87	194	39.366	321	44.90	173	9.95	83	16.35	78	45.341	294	26.82	145
30	56.750	372	13.81	243	39.687	299	46.63	218	10.78	79	17.13	113	45.635	280	28.27	179
Mai 10	57.122	321	16.24	281	39.986	270	48.81	254	11.57	72	18.26	147	45.915	260	30.06	207
20	57.443	262	19.05	312	40.256	237	51.35	281	12.29	65	19.73	177	46.175	234	32.13	228
30	57.705	198	22.17	332	40.493	197	54.16	299	12.94	55	21.50	204	46.409	204	34.41	242
Juni 9	57.903	128	25.49	343	40.690	153	57.15	310	13.49	46	23.54	224	46.613	169	36.83	248
19	58.031	56	28.92	343	40.843	106	60.25	311	13.95	34	25.78	240	46.782	130	39.31	247
28*)	27 58.087	17	32.35	335	40.949	56	63.36	305	14.29	21	28.18	248	46.912	88	41.78	240
Juli 8	58.070	90	35.70	320	30 41.005	5	66.41	290	30 14.50	9	30.66	250	2 47.000	44	44.18	228
18	57.980	160	38.90	296	41.010	45	69.31	270	14.59	3	33.16	244	47.044	1	46.46	210
28	57.820	225	41.86	265	40.965	93	72.01	243	14.56	16	35.60	229	47.045	43	48.56	188
Aug. 7	57.595	286	44.51	230	40.872	138	74.44	211	14.40	27	37.89	207	47.002	83	50.44	162
17	57.309	336	46.81	188	40.734	178	76.55	175	14.13	37	39.96	177	46.919	119	52.06	134
27	56.973	378	48.69	143	40.556	210	78.30	135	13.76	46	41.73	140	46.800	150	53.40	103
Sept. 6	56.595	408	50.12	95	40.346	234	79.65	93	13.30	53	43.13	97	46.650	172	54.43	70
16	56.187	425	51.07	44	40.112	249	80.58	49	12.77	57	44.10	50	46.478	186	55.13	37
26	55.762	429	51.51	8	39.863	253	81.07	3	12.20	58	44.60	1	46.292	191	55.50	2
Okt. 6	55.333	419	51.43	62	39.610	247	81.10	44	11.62	57	44.59	52	46.101	187	55.52	34
16	54.914	395	50.81	115	39.363	230	80.66	91	11.05	52	44.07	102	45.914	172	55.18	68
26	54.519	357	49.66	166	39.133	203	79.75	136	10.53	45	43.05	149	45.742	149	54.50	102
Nov. 5	54.162	307	48.00	214	38.930	168	78.39	179	10.08	36	41.56	191	45.593	117	53.48	136
15	53.855	247	45.86	258	38.762	125	76.60	219	9.72	25	39.65	226	45.476	80	52.12	166
25	53.608	177	43.28	296	38.637	76	74.41	254	9.47	12	37.39	253	45.396	37	50.46	193
Dez. 5	53.431	100	40.32	325	38.561	24	71.87	281	9.35	1	34.86	271	45.359	7	48.53	216
15	53.331	20	37.07	345	38.537	29	69.06	301	9.36	15	32.15	279	45.366	52	46.37	231
25	53.311	62	33.62	353	38.566	83	66.05	310	9.51	28	29.36	279	45.418	96	44.06	240
35	53.373		30.09		38.649		62.95		9.79		26.57		45.514		41.66	
Mittl. Ort	55.069		38.93		38.153		69.66		5.87		22.50		44.077		47.83	
sec δ, tg δ	1.928		+1.649		1.282		+0.802		3.150		−2.987		1.067		+0.374	
a, *a′*	+0.9		+2.0		+2.0		+3.0		+7.0		+3.1		+2.6		+3.7	
b, *b′*	+0.01		+0.99		+0.01		+0.99		+0.03		+0.99		0.00		+0.98	

*) Bei Stern 699), 698) und 703) lies Juni 29

Tag	704) λ Pavonis				705) β Lyrae				707) ο Draconis				706) σ Sagittarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	18h 45m		−62° 15′		18h 47m		+33° 16′		18h 50m		+59° 17′		18h 51m		−26° 22′	
	s		″		s		″		s		″		s		″	
Jan. 1	52.57	26	74.36	236	32.456	105	48.82	294	9.094	60	69.20	352	1.529	159	68.75	32
11	52.83	34	72.00	227	32.561	151	45.88	288	9.154	140	65.68	347	1.688	200	68.43	30
21	53.17	41	69.73	213	32.712	192	43.00	271	9.294	215	62.21	330	1.888	235	68.13	29
31	53.58	47	67.60	193	32.904	228	40.29	244	9.509	284	58.91	299	2.123	264	67.84	30
Feb. 10	54.05	52	65.67	170	33.132	260	37.85	208	9.793	344	55.92	259	2.387	288	67.54	32
20	54.57	56	63.97	144	33.392	285	35.77	163	10.137	395	53.33	208	2.675	308	67.22	35
März 1	55.13	59	62.53	115	33.677	306	34.14	112	10.532	435	51.25	150	2.983	323	66.87	39
11	55.72	61	61.38	85	33.983	319	33.02	56	10.967	462	49.75	86	3.306	333	66.48	43
21	56.33	62	60.53	54	34.302	328	32.46	1	11.429	476	48.89	19	3.639	340	66.05	46
31	56.95	62	59.99	23	34.630	329	32.47	57	11.905	478	48.70	46	3.979	344	65.59	49
Apr. 10	57.57	61	59.76	10	34.959	325	33.04	111	12.383	466	49.16	110	4.323	343	65.10	51
20	58.18	60	59.86	42	35.284	314	34.15	160	12.849	442	50.26	169	4.666	336	64.59	50
30	58.78	57	60.28	73	35.598	296	35.75	203	13.291	408	51.95	220	5.002	325	64.09	46
Mai 10	59.35	54	61.01	103	35.894	273	37.78	237	13.699	362	54.15	265	5.327	308	63.63	40
20	59.89	48	62.04	132	36.167	244	40.15	265	14.061	308	56.80	300	5.635	286	63.23	33
30	60.37	43	63.36	156	36.411	208	42.80	284	14.369	246	59.80	326	5.921	257	62.90	23
Juni 9	60.80	36	64.92	178	36.619	169	45.64	295	14.615	177	63.06	343	6.178	222	62.67	12
19	61.16	28	66.70	194	36.788	125	48.59	297	14.792	105	66.49	349	6.400	183	62.55	1
29	61.44	20	68.64	206	36.913	78	51.56	292	14.897	30	69.98	347	6.583	139	62.54	9
Juli 8	[3] 61.64	11	70.70	211	[4] 36.991	30	54.48	279	[4] 14.927	46	73.45	336	[5] 6.722	93	62.63	20
18	61.75	2	72.81	210	37.021	18	57.27	261	14.881	120	76.81	317	6.815	45	62.83	28
28	61.77	6	74.91	201	37.003	65	59.88	236	14.761	190	79.98	292	6.860	3	63.11	35
Aug. 7	61.71	15	76.92	184	36.938	109	62.24	207	14.571	255	82.90	260	6.857	49	63.46	38
17	61.56	22	78.76	162	36.829	148	64.31	174	14.316	312	85.50	222	6.808	91	63.84	39
27	61.34	29	80.38	133	36.681	181	66.05	138	14.004	360	87.72	179	6.717	126	64.23	36
Sept. 6	61.05	33	81.71	97	36.500	206	67.43	98	13.644	397	89.51	134	6.591	153	64.59	31
16	60.72	37	82.68	57	36.294	222	68.41	56	13.247	422	90.85	84	6.438	171	64.90	24
26	60.35	38	83.25	14	36.072	229	68.97	13	12.825	434	91.69	32	6.267	178	65.14	15
Okt. 6	59.97	37	83.39	30	35.843	225	69.10	30	12.391	431	92.01	21	6.089	173	65.29	6
16	59.60	34	83.09	75	35.618	211	68.80	74	11.960	415	91.80	75	5.916	158	65.35	5
26	59.26	30	82.34	116	35.407	187	68.06	117	11.545	384	91.05	128	5.758	133	65.30	15
Nov. 5	58.96	24	81.18	154	35.220	155	66.89	158	11.161	341	89.77	180	5.625	98	65.15	22
15	58.72	16	79.64	186	35.065	116	65.31	197	10.820	286	87.97	227	5.527	57	64.93	28
25	58.56	7	77.78	212	34.949	71	63.34	230	10.534	221	85.70	269	5.470	11	64.65	32
Dez. 5	58.49	2	75.66	229	34.878	23	61.04	258	10.313	149	83.01	304	5.459	37	64.33	35
15	58.51	11	73.37	239	34.855	26	58.46	278	10.164	71	79.97	330	5.496	86	63.98	35
25	58.62	20	70.98	240	34.881	75	55.68	289	10.093	11	76.67	345	5.582	132	63.63	34
35	58.82		68.58		34.956		52.79		10.104		73.22		5.714		63.29	
Mittl. Ort	55.24		64.56		34.145		57.81		11.960		77.20		2.958		58.56	
sec δ, tg δ	2.149		−1.902		1.196		+0.656		1.959		+1.684		1.116		−0.496	
a, a′	+5.6		+4.0		+2.2		+4.1		+0.9		+4.4		+3.7		+4.4	
b, b′	−0.03		+0.98		+0.01		+0.98		+0.02		+0.98		−0.01		+0.98	

Tag	709) ϑ Serpent. pr. AR.		709) ϑ Serpent. pr. Dekl.		708) λ Telescopii AR.		708) λ Telescopii Dekl.		711) *R* Lyrae AR.		711) *R* Lyrae Dekl.		713) γ Lyrae AR.		713) γ Lyrae Dekl.	
1932	18h 52m		+4° 6′		18h 52m		−53° 1′		18h 53m		+43° 50′		18h 56m		+32° 35′	
Jan. 1	48.986	127	39.57	155	59.494	207	56.00	192	13.983	85	71.72	323	22.277	95	34.17	288
11	49.113	163	38.02	151	59.701	269	54.08	186	14.068	139	68.49	319	22.372	141	31.29	284
21	49.276	195	36.51	142	59.970	322	52.22	176	14.207	189	65.30	303	22.513	182	28.45	269
31	49.471	223	35.09	126	60.292	369	50.46	162	14.396	235	62.27	275	22.695	219	25.76	244
Feb. 10	49.694	246	33.83	103	60.661	408	48.84	146	14.631	275	59.52	236	22.914	251	23.32	209
20	49.940	265	32.80	76	61.069	439	47.38	127	14.906	307	57.16	189	23.165	278	21.23	165
März 1	50.205	280	32.04	45	61.508	463	46.11	107	15.213	333	55.27	133	23.443	300	19.58	115
11	50.485	291	31.59	11	61.971	480	45.04	86	15.546	352	53.94	74	23.743	315	18.43	60
21	50.776	299	31.48	24	62.451	490	44.18	63	15.898	363	53.20	11	24.058	324	17.83	4
31	51.075	301	31.72	57	62.941	494	43.55	39	16.261	365	53.09	50	24.382	328	17.79	51
Apr. 10	51.376	300	32.29	89	63.435	491	43.16	14	16.626	360	53.59	109	24.710	326	18.30	105
20	51.676	294	33.18	117	63.926	480	43.02	11	16.986	347	54.68	164	25.036	316	19.35	155
30	51.970	284	34.35	140	64.406	462	43.13	37	17.333	326	56.32	212	25.352	301	20.90	197
Mai 10	52.254	267	35.75	157	64.868	436	43.50	62	17.659	298	58.44	253	25.653	279	22.87	234
20	52.521	247	37.32	170	65.304	400	44.12	86	17.957	262	60.97	284	25.932	250	25.21	262
30	52.768	220	39.02	177	65.704	356	44.98	109	18.219	221	63.81	308	26.182	217	27.83	281
Juni 9	52.988	188	40.79	177	66.060	306	46.07	130	18.440	175	66.89	321	26.399	179	30.64	293
19	53.176	152	42.56	174	66.366	248	47.37	146	18.615	124	70.10	327	26.578	135	33.57	297
29	53.328	113	44.30	166	66.614	183	48.83	158	18.739	69	73.37	324	26.713	88	36.54	292
Juli 8	53.441	71	45.96	154	66.797	116	50.41	166	18.808	15	76.61	312	26.801	41	39.46	281
18	53.512	28	47.50	139	66.913	45	52.07	169	18.823	40	79.73	294	26.842	7	42.27	263
28	53.540	14	48.89	122	66.958	24	53.76	165	18.783	93	82.67	270	26.835	55	44.90	241
Aug. 7	53.526	54	50.11	103	66.934	90	55.41	155	18.690	142	85.37	238	26.780	99	47.31	211
17	53.472	90	51.14	83	66.844	151	56.96	138	18.548	186	87.75	203	26.681	140	49.42	179
27	53.382	122	51.97	63	66.693	202	58.34	117	18.362	224	89.78	164	26.541	173	51.21	144
Sept. 6	53.260	145	52.60	42	66.491	243	59.51	89	18.138	253	91.42	120	26.368	199	52.65	105
16	53.115	161	53.02	20	66.248	270	60.40	56	17.885	272	92.62	75	26.169	217	53.70	64
26	52.954	167	53.22	1	65.978	281	60.96	22	17.613	280	93.37	27	25.952	225	54.34	22
Okt. 6	52.787	163	53.21	21	65.697	277	61.18	14	17.333	278	93.64	23	25.727	222	54.56	21
16	52.624	150	53.00	42	65.420	257	61.04	51	17.055	265	93.41	71	25.505	210	54.35	65
26	52.474	129	52.58	63	65.163	222	60.53	86	16.790	240	92.70	120	25.295	188	53.70	108
Nov. 5	52.345	98	51.95	84	64.941	173	59.67	118	16.550	206	91.50	167	25.107	158	52.62	149
15	52.247	63	51.11	102	64.768	115	58.49	146	16.344	165	89.83	211	24.949	120	51.13	187
25	52.184	24	50.09	119	64.653	48	57.03	167	16.179	116	87.72	249	24.829	77	49.26	222
Dez. 5	52.160	19	48.90	135	64.605	24	55.36	182	16.063	62	85.23	281	24.752	31	47.04	250
15	52.179	61	47.55	145	64.629	95	53.54	192	16.001	7	82.42	304	24.721	18	44.54	271
25	52.240	103	46.10	151	64.724	164	51.62	195	15.994	51	79.38	318	24.739	66	41.83	283
35	52.343		44.59		64.888		49.67		16.045		76.20		24.805		39.00	
Mittl. Ort	50.336		49.19		61.544		45.64		15.980		80.02		23.960		42.69	
sec δ, tg δ	1.003		+0.072		1.663		−1.328		1.387		+0.961		1.187		+0.639	
a, *a′*	+3.0		+4.6		+4.8		+4.6		+1.8		+4.6		+2.2		+4.9	
b, *b′*	0.00		+0.97		−0.02		+0.97		+0.01		+0.97		+0.01		+0.97	

Scheinbare Sternörter 1932

Tag	716) ζ Aquilae AR.		Dekl.		717) λ Aquilae AR.		Dekl.		718) α Coron. austr. AR.		Dekl.		720) π Sagittarii AR.		Dekl.	
1932	19h 2m		+13° 45′		19h 2m		−4° 59′		19h 4m		−38° 0′		19h 5m		−21° 7′	
Jan. 1	15.644	109	30.68	204	37.101	125	19.14	99	49.274	159	54.98	108	41.874	138	70.30	3
11	15.753	147	28.64	201	37.226	162	20.13	96	49.433	206	53.90	107	42.012	177	70.27	4
21	15.900	180	26.63	190	37.388	194	21.09	89	49.639	246	52.83	105	42.189	210	70.23	7
31	16.080	211	24.73	170	37.582	221	21.98	77	49.885	282	51.78	100	42.399	240	70.16	11
Feb. 10	16.291	236	23.03	143	37.803	245	22.75	61	50.167	311	50.78	95	42.639	265	70.05	18
20	16.527	258	21.60	110	38.048	265	23.36	40	50.478	336	49.83	90	42.904	285	69.87	25
März 1	16.785	276	20.50	71	38.313	280	23.76	17	50.814	356	48.93	84	43.189	302	69.62	35
11	17.061	289	19.79	30	38.593	293	23.93	8	51.170	370	48.09	77	43.491	315	69.27	45
21	17.350	298	19.49	13	38.886	301	23.85	35	51.540	381	47.32	68	43.806	325	68.82	54
31	17.648	302	19.62	55	39.187	306	23.50	59	51.921	387	46.64	59	44.131	330	68.28	62
Apr. 10	17.950	303	20.17	96	39.493	306	22.91	82	52.308	387	46.05	49	44.461	331	67.66	69
20	18.253	297	21.13	131	39.799	303	22.09	102	52.695	383	45.56	36	44.792	327	66.97	72
30	18.550	287	22.44	163	40.102	293	21.07	118	53.078	372	45.20	22	45.119	319	66.25	73
Mai 10	18.837	271	24.07	188	40.395	280	19.89	128	53.450	354	44.98	7	45.438	305	65.52	72
20	19.108	250	25.95	206	40.675	260	18.61	135	53.804	331	44.91	10	45.743	285	64.80	66
30	19.358	222	28.01	219	40.935	234	17.26	137	54.135	299	45.01	27	46.028	258	64.14	59
Juni 9	19.580	190	30.20	224	41.169	204	15.89	135	54.434	261	45.28	44	46.286	227	63.55	50
19	19.770	153	32.44	223	41.373	169	14.54	128	54.695	218	45.72	59	46.513	190	63.05	38
29	19.923	113	34.67	217	41.542	130	13.26	119	54.913	169	46.31	73	46.703	148	62.67	26
Juli 8	7 20.036	71	36.84	205	7 41.672	87	12.07	107	8 55.082	117	47.04	84	8 46.851	103	62.41	15
18	20.107	27	38.89	190	41.759	44	11.00	93	55.199	62	47.88	92	46.954	56	62.26	3
28	20.134	16	40.79	170	41.803	1	10.07	79	55.261	7	48.80	96	47.010	10	62.23	7
Aug. 7	20.118	58	42.49	147	41.804	41	9.28	64	55.268	46	49.76	95	47.020	35	62.30	14
17	20.060	95	43.96	123	41.763	78	8.64	49	55.222	94	50.71	90	46.985	77	62.44	20
27	19.965	127	45.19	96	41.685	111	8.15	35	55.128	136	51.61	80	46.908	112	62.64	23
Sept. 6	19.838	152	46.15	69	41.574	137	7.80	20	54.992	170	52.41	67	46.796	141	62.87	23
16	19.686	169	46.84	40	41.437	154	7.60	7	54.822	193	53.08	49	46.655	160	63.10	22
26	19.517	177	47.24	10	41.283	162	7.53	6	54.629	204	53.57	29	46.495	169	63.32	19
Okt. 6	19.340	175	47.34	19	41.121	160	7.59	18	54.425	202	53.86	6	46.326	167	63.51	14
16	19.165	163	47.15	49	40.961	148	7.77	29	54.223	188	53.92	16	46.159	155	63.65	9
26	19.002	143	46.66	78	40.813	127	8.06	42	54.035	163	53.76	37	46.004	134	63.74	4
Nov. 5	18.859	115	45.88	106	40.686	98	8.48	53	53.872	126	53.39	58	45.870	102	63.78	0
15	18.744	81	44.82	133	40.588	63	9.01	64	53.746	82	52.81	75	45.768	65	63.78	3
25	18.663	43	43.49	156	40.525	24	9.65	75	53.664	33	52.06	90	45.703	22	63.75	4
Dez. 5	18.620	0	41.93	176	40.501	18	10.40	84	53.631	21	51.16	100	45.681	22	63.71	5
15	18.620	42	40.17	191	40.519	60	11.24	92	53.652	75	50.16	107	45.703	67	63.66	6
25	18.662	83	38.26	200	40.579	101	12.16	95	53.727	128	49.09	110	45.770	112	63.60	5
35	18.745		36.26		40.680		13.11		53.855		47.99		45.882		63.55	
Mittl. Ort	17.055		39.73		38.423		9.31		50.835		44.11		43.234		59.85	
sec δ, tg δ	1.030		+0.245		1.004		−0.087		1.269		−0.782		1.072		−0.387	
a, a'	+2.8		+5.4		+3.2		+5.4		+4.1		+5.6		+3.6		+5.7	
b, b'	0.00		+0.96		0.00		+0.96		−0.01		+0.96		−0.01		+0.96	

Tag	723) δ Draconis				724) θ Lyrae				725) ω Aquilae				726) κ Cygni			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$19^h 12^m$		+67° 32′		$19^h 13^m$		+38° 0′		$19^h 14^m$		+11° 27′		$19^h 15^m$		+53° 14′	
Jan. 1	28.72	3	25.00	347	58.596	68	34.60	300	36.080	99	68.58	188	29.447	34	26.07	336
11	28.69	9	21.53	350	58.664	116	31.60	300	36.179	136	66.70	185	29.481	100	22.71	336
21	28.78	19	18.03	339	58.780	163	28.60	288	36.315	170	64.85	175	29.581	164	19.35	325
31	28.97	29	14.64	316	58.943	204	25.72	264	36.485	201	63.10	158	29.745	224	16.10	301
Feb. 10	29.26	38	11.48	280	59.147	242	23.08	230	36.686	227	61.52	133	29.969	278	13.09	266
20	29.64	46	8.68	233	59.389	274	20.78	187	36.913	249	60.19	101	30.247	325	10.43	219
März 1	30.10	53	6.35	178	59.663	301	18.91	137	37.162	269	59.18	66	30.572	363	8.24	166
11	30.63	57	4.57	117	59.964	322	17.54	81	37.431	283	58.52	26	30.935	393	6.58	105
21	31.20	60	3.40	51	60.286	335	16.73	22	37.714	295	58.26	14	31.328	412	5.53	42
31	31.80	61	2.89	15	60.621	343	16.51	37	38.009	301	58.40	55	31.740	422	5.11	24
Apr. 10	32.41	60	3.04	81	60.964	344	16.88	93	38.310	303	58.95	93	32.162	420	5.35	86
20	33.01	58	3.85	142	61.308	337	17.81	147	38.613	301	59.88	128	32.582	408	6.21	146
30	33.59	54	5.27	198	61.645	322	19.28	194	38.914	292	61.16	158	32.990	386	7.67	199
Mai 10	34.13	48	7.25	246	61.967	301	21.22	235	39.206	278	62.74	181	33.376	354	9.66	247
20	34.61	42	9.71	286	62.268	273	23.57	267	39.484	258	64.55	200	33.730	314	12.13	285
30	35.03	33	12.57	318	62.541	238	26.24	292	39.742	233	66.55	212	34.044	266	14.98	313
Juni 9	35.36	24	15.75	340	62.779	197	29.16	308	39.975	201	68.67	217	34.310	211	18.11	334
19	35.60	15	19.15	353	62.976	152	32.24	314	40.176	167	70.84	216	34.521	151	21.45	345
29	35.75	5	22.68	356	63.128	103	35.38	314	40.343	127	73.00	210	34.672	87	24.90	347
Juli 9	35.80	6	26.24	351	63.231	52	38.52	306	40.470	84	75.10	199	34.759	21	28.37	341
18	[10] 35.74	15	29.75	337	[10] 63.283	0	41.58	290	[10] 40.554	40	77.09	183	[11] 34.780	45	31.78	326
28	35.59	24	33.12	316	63.283	51	44.48	268	40.594	3	78.92	165	34.735	108	35.04	305
Aug. 7	35.35	33	36.28	289	63.232	98	47.16	241	40.591	45	80.57	143	34.627	168	38.09	277
17	35.02	41	39.17	255	63.134	143	49.57	208	40.546	83	82.00	120	34.459	222	40.86	242
27	34.61	48	41.72	215	62.991	181	51.65	173	40.463	117	83.20	95	34.237	269	43.28	204
Sept. 6	34.13	53	43.87	171	62.810	210	53.38	132	40.346	142	84.15	69	33.968	306	45.32	161
16	33.60	58	45.58	123	62.600	232	54.70	90	40.204	162	84.84	42	33.662	334	46.93	113
26	33.02	60	46.81	72	62.368	244	55.60	46	40.042	171	85.26	14	33.328	349	48.06	64
Okt. 6	32.42	60	47.53	18	62.124	244	56.06	1	39.871	171	85.40	13	32.979	353	48.70	12
16	31.82	59	47.71	36	61.880	236	56.05	47	39.700	162	85.27	40	32.626	344	48.82	40
26	31.23	56	47.35	92	61.644	217	55.58	94	39.538	144	84.87	68	32.282	323	48.42	94
Nov. 5	30.67	52	46.43	146	61.427	188	54.64	139	39.394	117	84.19	94	31.959	290	47.48	146
15	30.15	46	44.97	197	61.239	152	53.25	181	39.277	85	83.25	119	31.669	247	46.02	194
25	29.69	38	43.00	243	61.087	110	51.44	219	39.192	49	82.06	141	31.422	196	44.08	238
Dez. 5	29.31	29	40.57	284	60.977	63	49.25	253	39.143	8	80.65	160	31.226	137	41.70	277
15	29.02	19	37.73	316	60.914	14	46.72	277	39.135	34	79.05	174	31.089	74	38.93	306
25	28.83	9	34.57	337	60.900	37	43.95	293	39.169	74	77.31	183	31.015	8	35.87	326
35	28.74		31.20		60.937		41.02		39.243		75.48		31.007		32.61	
Mittl. Ort	32.67		30.69		60.428		41.76		37.467		77.37		31.927		32.21	
sec δ, tg δ	2.618		+2.419		1.269		+0.782		1.020		+0.203		1.671		+1.339	
a, a'	0.0		+6.2		+2.1		+6.4		+2.8		+6.4		+1.4		+6.5	
b, b'	+0.05		+0.95		+0.02		+0.95		0.00		+0.95		+0.03		+0.95	

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Tag	729) τ Draconis AR.		729) τ Draconis Dekl.		728) α Sagittarii AR.		728) α Sagittarii Dekl.		730) δ Aquilae AR.		730) δ Aquilae Dekl.		732) β Cygni AR.		732) β Cygni Dekl.	
1932	$19^h 16^m$		$+73° 13'$		$19^h 19^m$		$-40° 44'$		$19^h 22^m$		$+2° 58'$		$19^h 27^m$		$+27° 48'$	
Jan. 1	47.01	9	42.13	343	9.073	144	55.53	130	2.866	100	31.04	138	57.113	67	49.53	259
11	46.92	6	38.70	349	9.217	193	54.23	130	2.966	136	29.66	137	57.180	109	46.94	259
21	46.98	20	35.21	339	9.410	236	52.93	128	3.102	170	28.29	127	57.289	149	44.35	250
31	47.18	33	31.82	318	9.646	275	51.65	125	3.272	198	27.02	113	57.438	186	41.85	229
Feb. 10	47.51	46	28.64	284	9.921	308	50.40	121	3.470	225	25.89	93	57.624	218	39.56	200
20	47.97	57	25.80	239	10.229	335	49.19	114	3.695	247	24.96	67	57.842	248	37.56	163
März 1	48.54	66	23.41	186	10.564	358	48.05	106	3.942	265	24.29	37	58.090	272	35.93	117
11	49.20	72	21.55	125	10.922	376	46.99	98	4.207	281	23.92	6	58.362	292	34.76	69
21	49.92	77	20.30	60	11.298	390	46.01	87	4.488	293	23.86	28	58.654	307	34.07	16
31	50.69	78	19.70	6	11.688	398	45.14	75	4.781	301	24.14	61	58.961	317	33.91	37
Apr. 10	51.47	77	19.76	70	12.086	401	44.39	62	5.082	304	24.75	91	59.278	321	34.28	88
20	52.24	74	20.46	132	12.487	400	43.77	46	5.386	303	25.66	118	59.599	318	35.16	136
30	52.98	69	21.78	189	12 887	391	43.31	29	5.689	296	26.84	142	59.917	310	36.52	178
Mai 10	53.67	61	23.67	238	13.278	375	43.02	11	5.985	285	28.26	159	60.227	294	38.30	214
20	54.28	51	26.05	280	13.653	352	42.91	8	6.270	266	29.85	172	60.521	272	40.44	244
30	54.79	41	28.85	312	14.005	321	42.99	29	6.536	243	31.57	179	60.793	244	42.88	265
Juni 9	55.20	29	31.97	335	14.326	284	43.28	48	6.779	214	33.36	181	61.037	209	45.53	278
19	55.49	16	35.32	350	14.610	240	43.76	67	6.993	179	35.17	177	61.246	171	48.31	285
29	55.65	4	38.82	355	14.850	190	44.43	82	7.172	141	36.94	169	61.417	127	51.16	283
Juli 9	55.69	10	42.37	352	15.040	136	45.25	96	7.313	99	38.63	157	61.544	81	53.99	276
18	55.59	23	45.89	339	15.176	79	46.21	106	7.412	56	40.20	143	61.625	34	56.75	261
28	55.36	34	49.28	320	15.255	21	47.27	111	7.468	12	41.63	126	61.659	14	59.36	241
Aug. 7	55.02	46	52.48	294	15.276	34	48.38	112	7.480	30	42.89	107	61.645	59	61.77	217
17	54.56	57	55.42	262	15.242	87	49.50	107	7.450	69	43.96	87	61.586	100	63.94	189
27	53.99	65	58.04	223	15.155	132	50.57	97	7.381	103	44.83	68	61.486	137	65.83	156
Sept. 6	53.34	72	60.27	181	15.023	169	51.54	83	7.278	131	45.51	47	61.349	167	67.39	121
16	52.62	78	62.08	133	14.854	196	52.37	64	7.147	150	45.98	26	61.182	189	68.60	85
26	51.84	82	63.41	83	14.658	211	53.01	42	6.997	161	46.24	6	60.993	201	69.45	45
Okt. 6	51.02	82	64.24	30	14.447	212	53.43	17	6.836	162	46.30	13	60.792	204	69.90	6
16	50.20	81	64.54	25	14.235	202	53.60	9	6.674	153	46.17	33	60.588	197	69.96	34
26	49.39	78	64.29	80	14.033	178	53.51	35	6.521	137	45.84	52	60.391	182	69.62	75
Nov. 5	48.61	73	63.49	135	13.855	144	53.16	58	6.384	111	45.32	71	60.209	157	68.87	114
15	47.88	66	62.14	186	13.711	101	52.58	79	6.273	79	44.61	88	60.052	125	67.73	151
25	47.22	55	60.28	234	13.610	51	51.79	98	6.194	44	43.73	105	59.927	88	66.22	185
Dez. 5	46.67	44	57.94	276	13.559	3	50.81	113	6.150	4	42.68	118	59.839	48	64.37	214
15	46.23	32	55.18	309	13.562	57	49.68	123	6.146	36	41.50	128	59.791	4	62.23	236
25	45.91	18	52.09	333	13.619	111	48.45	129	6.182	76	40.22	135	59.787	40	59.87	252
35	45.73		48.76		13.730		47.16		6.258		38.87		59.827		57.35	
Mittl. Ort	52.29		47.17		10.642		43.96		4.191		40.23		58.709		56.56	
sec δ, tg δ	3.466		+3.318		1.320		−0.862		1.001		+0.052		1.131		+0.528	
a, *a'*	−1.1		+6.6		+4.2		+6.8		+3.0		+7.0		+2.4		+7.5	
b, *b'*	+0.07		+0.94		−0.02		+0.94		0.00		+0.94		+0.01		+0.93	

Tag	733) ι Cygni AR.		733) ι Cygni Dekl.		736) *h* Sagittarii AR.		736) *h* Sagittarii Dekl.		738) ϑ Cygni AR.		738) ϑ Cygni Dekl.		742) δ Cygni AR.		742) δ Cygni Dekl.	
1932	$19^h\ 27^m$		$+51°\ 34'$		$19^h\ 32^m$		$-25°\ 2'$		$19^h\ 34^m$		$+50°\ 3'$		$19^h\ 42^m$		$+44°\ 57'$	
	s		"		s		"		s		"		s		"	
Jan. 1	57.129	19	57.65	328	32.928	113	18.03	36	34.742	15	41.09	321	48.921	17	45.30	307
11	57.148	83	54.37	331	33.041	152	17.67	39	34.757	75	37.88	326	48.938	72	42.23	313
21	57.231	145	51.06	323	33.193	189	17.28	44	34.832	134	34.62	319	49.010	125	39.10	307
31	57.376	203	47.83	301	33.382	221	16.84	48	34.966	191	31.43	299	49.135	176	36.03	288
Feb. 10	57.579	255	44.82	268	33.603	249	16.36	54	35.157	243	28.44	268	49.311	221	33.15	259
20	57.834	303	42.14	225	33.852	274	15.82	60	35.400	288	25.76	226	49.532	264	30.56	219
März 1	58.137	342	39.89	173	34.126	294	15.22	67	35.688	328	23.50	175	49.796	300	28.37	171
11	58.479	373	38.16	115	34.420	311	14.55	73	36.016	360	21.75	118	50.096	329	26.66	115
21	58.852	396	37.01	51	34.731	326	13.82	79	36.376	383	20.57	56	50.425	353	25.51	56
31	59.248	408	36.50	12	35.057	336	13.03	84	36.759	397	20.01	8	50.778	367	24.95	6
Apr. 10	59.656	410	36.62	75	35.393	341	12.19	87	37.156	401	20.09	70	51.145	374	25.01	66
20	60.066	403	37.37	134	35.734	342	11.32	86	37.557	396	20.79	130	51.519	372	25.67	124
30	60.469	385	38.71	189	36.076	338	10.46	83	37.953	380	22.09	184	51.891	361	26.91	177
Mai 10	60.854	357	40.60	237	36.414	327	9.63	77	38.333	356	23.93	231	52.252	342	28.68	224
20	61.211	322	42.97	277	36.741	310	8.86	68	38.689	323	26.24	272	52.594	313	30.92	264
30	61.533	277	45.74	307	37.051	286	8.18	56	39.012	281	28.96	304	52.907	278	33.56	294
Juni 9	61.810	226	48.81	330	37.337	256	7.62	43	39.293	232	32.00	327	53.185	236	36.50	317
19	62.036	169	52.11	342	37.593	220	7.19	29	39.525	178	35.27	340	53.421	187	39.67	331
29	62.205	108	55.53	347	37.813	178	6.90	14	39.703	119	38.67	346	53.608	133	42.98	336
Juli 9	62.313	45	59.00	343	37.991	133	6.76	1	39.822	58	42.13	342	53.741	78	46.34	333
18	[14] 62.358	19	62.43	330	[15] 38.124	85	6.77	15	[16] 39.880	4	45.55	331	[18] 53.819	21	49.67	323
28	62.339	82	65.73	311	38.209	36	6.92	26	39.876	66	48.86	313	53.840	36	52.90	305
Aug. 7	62.257	141	68.84	284	38.245	13	7.18	35	39.810	124	51.99	287	53.804	91	55.95	281
17	62.116	195	71.68	253	38.232	57	7.53	41	39.686	178	54.86	256	53.713	141	58.76	251
27	61.921	242	74.21	215	38.175	97	7.94	44	39.508	224	57.42	220	53.572	186	61.27	216
Sept. 6	61.679	282	76.36	173	38.078	130	8.38	44	39.284	264	59.62	178	53.386	223	63.43	177
16	61.397	310	78.09	128	37.948	154	8.82	39	39.020	293	61.40	134	53.163	251	65.20	134
26	61.087	328	79.37	78	37.794	169	9.21	34	38.727	311	62.74	86	52.912	270	66.54	88
Okt. 6	60.759	333	80.15	28	37.625	172	9.55	26	38.416	318	63.60	35	52.642	278	67.42	40
16	60.426	328	80.43	24	37.453	165	9.81	16	38.098	315	63.95	16	52.364	274	67.82	11
26	60.098	311	80.19	78	37.288	146	9.97	5	37.783	298	63.79	69	52.090	262	67.71	60
Nov. 5	59.787	281	79.41	129	37.142	120	10.02	4	37.485	271	63.10	120	51.828	237	67.11	110
15	59.506	243	78.12	178	37.022	86	9.98	12	37.214	235	61.90	170	51.591	205	66.01	158
25	59.263	196	76.34	224	36.936	46	9.86	20	36.979	191	60.20	215	51.386	165	64.43	203
Dez. 5	59.067	141	74.10	263	36.890	2	9.66	27	36.788	139	58.05	255	51.221	119	62.40	241
15	58.926	81	71.47	295	36.888	42	9.39	32	36.649	82	55.50	287	51.102	68	59.99	272
25	58.845	20	68.52	317	36.930	85	9.07	36	36.567	23	52.63	310	51.034	15	57.27	296
35	58.825		65.35		37.015		8.71		36.544		49.53		51.019		54.31	
Mittl. Ort	59.524		62.86		34.254		6.82		37.058		45.87		50.999		49.85	
sec δ, tg δ	1.609		+1.261		1.104		−0.467		1.558		+1.194		1.413		+0.999	
a, *a'*	+1.5		+7.5		+3.6		+7.9		+1.6		+8.0		+1.9		+8.7	
b, *b'*	+0.03		+0.93		−0.01		+0.92		+0.03		+0.92		+0.03		+0.90	

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Tag	741) γ Aquilae AR.	Diff.	741) γ Aquilae Dekl.	Diff.	743) δ Sagittae AR.	Diff.	743) δ Sagittae Dekl.	Diff.
1932	19h 43m		+10° 26′		19h 44m		+18° 21′	
Jan. 1	0.248	74	38.84	172	19.891	62	48.25	211
11	0.322	109	37.12	171	19.953	101	46.14	211
21	0.431	143	35.41	164	20.054	137	44.03	204
31	0.574	175	33.77	148	20.191	170	41.99	188
Feb. 10	0.749	204	32.29	125	20.361	201	40.11	162
20	0.953	229	31.04	97	20.562	229	38.49	130
März 1	1.182	251	30.07	63	20.791	253	37.19	93
11	1.433	270	29.44	26	21.044	273	36.26	49
21	1.703	286	29.18	13	21.317	290	35.77	4
31	1.989	297	29.31	52	21.607	301	35.73	42
Apr. 10	2.286	304	29.83	90	21.908	309	36.15	85
20	2.590	306	30.73	125	22.217	310	37.00	127
30	2.896	302	31.98	155	22.527	306	38.27	164
Mai 10	3.198	292	33.53	180	22.833	295	39.91	194
20	3.490	276	35.33	198	23.128	277	41.85	219
30	3.766	254	37.31	210	23.405	254	44.04	237
Juni 9	4.020	225	39.41	218	23.659	225	46.41	248
19	4.245	192	41.59	218	23.884	189	48.89	251
29	4.437	154	43.77	212	24.073	150	51.40	249
Juli 9	4.591	112	45.89	203	24.223	107	53.89	241
18*)	4.703	68	47.92	188	24.330	62	56.30	227
28	4.771	24	49.80	170	24.392	16	58.57	209
Aug. 7	4.795	20	51.50	150	24.408	28	60.66	187
17	4.775	60	53.00	128	24.380	69	62.53	162
27	4.715	96	54.28	103	24.311	106	64.15	134
Sept. 6	4.619	126	55.31	77	24.205	136	65.49	105
16	4.493	149	56.08	52	24.069	160	66.54	74
26	4.344	162	56.60	26	23.909	173	67.28	41
Okt. 6	4.182	166	56.86	1	23.736	178	67.69	9
16	4.016	162	56.85	28	23.558	174	67.78	24
26	3.854	149	56.57	53	23.384	161	67.54	58
Nov. 5	3.705	127	56.04	78	23.223	140	66.96	89
15	3.578	98	55.26	102	23.083	112	66.07	120
25	3.480	66	54.24	124	22.971	79	64.87	148
Dez. 5	3.414	29	53.00	143	22.892	41	63.39	172
15	3.385	10	51.57	158	22.851	2	61.67	191
25	3.395	49	49.99	167	22.849	38	59.76	204
35	3.444		48.32		22.887		57.72	
Mittl. Ort	1.602		46.84		21.327		55.36	
sec δ, tg δ	1.017		+0.184		1.054		+0.332	
a, *a*′	+2.9		+8.7		+2.7		+8.8	
b, *b*′	+0.01		+0.90		+0.01		+0.90	

Tag	745) α Aquilae AR.	Diff.	745) α Aquilae Dekl.	Diff.	747) ε Draconis AR.	Diff.	747) ε Draconis Dekl.	Diff.
1932	19h 47m		+8° 40′		19h 48m		+70° 5′	
Jan. 1	26.586	74	66.79	160	20.24	14	38.79	330
11	26.660	110	65.19	158	20.10	2	35.49	342
21	26.770	143	63.61	151	20.08	10	32.07	342
31	26.913	175	62.10	136	20.18	22	28.65	328
Feb. 10	27.088	204	60.74	114	20.40	33	25.37	301
20	27.292	228	59.60	86	20.73	43	22.36	263
März 1	27.520	251	58.74	54	21.16	52	19.73	215
11	27.771	271	58.20	17	21.68	58	17.58	159
21	28.042	285	58.03	20	22.26	64	15.99	96
31	28.327	297	58.23	57	22.90	67	15.03	31
Apr. 10	28.624	304	58.80	94	23.57	68	14.72	34
20	28.928	307	59.74	127	24.25	66	15.06	98
30	29.235	304	61.01	155	24.91	64	16.04	157
Mai 10	29.539	294	62.56	178	25.55	59	17.61	211
20	29.833	278	64.34	196	26.14	52	19.72	258
30	30.111	256	66.30	207	26.66	44	22.30	297
Juni 9	30.367	229	68.37	212	27.10	35	25.27	326
19	30.596	195	70.49	212	27.45	24	28.53	347
29	30.791	157	72.61	206	27.69	14	32.00	358
Juli 9	30.948	116	74.67	196	27.83	3	35.58	362
18*)	31.064	73	76.63	181	27.86	9	39.20	357
28	31.137	28	78.44	163	27.77	19	42.77	343
Aug. 7	31.165	16	80.07	142	27.58	30	46.20	322
17	31.149	56	81.49	120	27.28	39	49.42	295
27	31.093	92	82.69	97	26.89	47	52.37	261
Sept. 6	31.001	122	83.66	73	26.42	55	54.98	222
16	30.879	145	84.39	48	25.87	60	57.20	178
26	30.734	158	84.87	22	25.27	64	58.98	129
Okt. 6	30.576	163	85.09	2	24.63	67	60.27	77
16	30.413	159	85.07	27	23.96	67	61.04	22
26	30.254	145	84.80	50	23.29	66	61.26	34
Nov. 5	30.109	124	84.30	74	22.63	62	60.92	90
15	29.985	96	83.56	96	22.01	57	60.02	145
25	29.889	64	82.60	117	21.44	50	58.57	197
Dez. 5	29.825	27	81.43	133	20.94	42	56.60	244
15	29.798	12	80.10	147	20.52	32	54.16	284
25	29.810	50	78.63	155	20.20	20	51.32	314
35	29.860		77.08		20.00		48.18	
Mittl. Ort	27.921		74.96		24.77		40.92	
sec δ, tg δ	1.012		+0.153		2.937		+2.762	
a, *a*′	+2.9		+9.1		−0.2		+9.1	
b, *b*′	0.00		+0.89		+0.08		+0.89	

*) Bei Stern 745) und 747) lies Juli 19

Tag	749) β Aquilae AR.		749) β Aquilae Dekl.		748) ε Pavonis AR.		748) ε Pavonis Dekl.	
1932	19ʰ 51ᵐ		+6° 13′		19ʰ 52ᵐ		−73° 5′	
Jan. 1	57.070	68	60.29	148	41.96	12	47.39	300
11	57.138	103	58.81	147	42.08	25	44.39	306
21	57.241	138	57.34	139	42.33	38	41.33	304
31	57.379	169	55.95	125	42.71	50	38.29	295
Feb. 10	57.548	197	54.70	104	43.21	61	35.34	277
20	57.745	223	53.66	79	43.82	70	32.57	255
März 1	57.968	246	52.87	48	44.52	78	30.02	228
11	58.214	265	52.39	14	45.30	84	27.74	196
21	58.479	282	52.25	21	46.14	89	25.78	160
31	58.761	295	52.46	57	47.03	92	24.18	123
Apr. 10	59.056	303	53.03	90	47.95	94	22.95	82
20	59.359	306	53.93	122	48.89	95	22.13	40
30	59.665	305	55.15	148	49.84	92	21.73	3
Mai 10	59.970	296	56.63	170	50.76	89	21.76	45
20	60.266	282	58.33	185	51.65	84	22.21	87
30	60.548	261	60.18	196	52.49	77	23.08	126
Juni 9	60.809	235	62.14	200	53.26	68	24.34	162
19	61.044	202	64.14	199	53.94	57	25.96	194
29	61.246	164	66.13	193	54.51	46	27.90	220
Juli 9	61.410	124	68.06	183	54.97	32	30.10	240
19	61.534	80	69.89	168	55.29	19	32.50	252
28	61.614	36	71.57	150	55.48	5	35.02	255
Aug. 7	61.650	8	73.07	131	55.53	10	37.57	250
17	61.642	49	74.38	110	55.43	23	40.07	237
27	61.593	85	75.48	87	55.20	35	42.44	213
Sept. 6	61.508	117	76.35	65	54.85	46	44.57	182
16	61.391	140	77.00	42	54.39	54	46.39	141
26	61.251	154	77.42	19	53.85	61	47.80	96
Okt. 6	61.097	161	77.61	4	53.24	64	48.76	45
16	60.936	157	77.57	26	52.60	63	49.21	8
26	60.779	145	77.31	48	51.97	61	49.13	63
Nov. 5	60.634	125	76.83	70	51.36	55	48.50	116
15	60.509	98	76.13	89	50.81	47	47.34	165
25	60.411	66	75.24	107	50.34	36	45.69	208
Dez. 5	60.345	30	74.17	124	49.98	24	43.61	246
15	60.315	6	72.93	135	49.74	11	41.15	274
25	60.321	45	71.58	143	49.63	3	38.41	295
35	60.366		70.15		49.66		35.46	
Mittl. Ort	58.374		68.49		45.44		33.10	
sec δ, tg δ	1.006		+0.109		3.438		−3.290	
a, *a'*	+2.9		+9.4		+6.9		+9.5	
b, *b'*	0.00		+0.88		−0.10		+0.88	

Tag	750) ψ Cygni AR.		750) ψ Cygni Dekl.		751) ϑ¹ Sagittarii AR.		751) ϑ¹ Sagittarii Dekl.	
1932	19ʰ 53ᵐ		+52° 15′		19ʰ 55ᵐ		−35° 27′	
Jan. 1	49.891	21	24.77	316	17.426	94	55.02	105
11	49.870	42	21.61	325	17.520	138	53.97	112
21	49.912	105	18.36	323	17.658	179	52.85	117
31	50.017	165	15.13	308	17.837	217	51.68	120
Feb. 10	50.182	222	12.05	280	18.054	251	50.48	122
20	50.404	274	9.25	242	18.305	280	49.26	124
März 1	50.678	320	6.83	195	18.585	306	48.02	123
11	50.998	358	4.88	139	18.891	330	46.79	122
21	51.356	387	3.49	78	19.221	348	45.57	118
31	51.743	407	2.71	15	19.569	363	44.39	112
Apr. 10	52.150	417	2.56	48	19.932	373	43.27	105
20	52.567	416	3.04	109	20.305	377	42.22	93
30	52.983	405	4.13	166	20.682	377	41.29	80
Mai 10	53.388	383	5.79	216	21.059	368	40.49	65
20	53.771	352	7.95	260	21.427	353	39.84	46
30	54.123	311	10.55	296	21.780	330	39.38	26
Juni 9	54.434	263	13.51	322	22.110	300	39.12	5
19	54.697	207	16.73	340	22.410	261	39.07	15
29	54.904	147	20.13	349	22.671	218	39.22	36
Juli 9	55.051	84	23.62	350	22.889	169	39.58	54
19	55.135	19	27.12	343	23.058	116	40.12	70
28	55.154	46	30.55	328	23.174	61	40.82	83
Aug. 7	55.108	108	33.83	305	23.235	7	41.65	91
17	55.000	166	36.88	277	23.242	44	42.56	95
27	54.834	218	39.65	243	23.198	91	43.51	94
Sept. 6	54.616	261	42.08	204	23.107	131	44.45	87
16	54.355	295	44.12	160	22.976	162	45.32	77
26	54.060	319	45.72	112	22.814	183	46.09	62
Okt. 6	53.741	331	46.84	63	22.631	192	46.71	44
16	53.410	332	47.47	11	22.439	189	47.15	23
26	53.078	320	47.58	42	22.250	174	47.38	2
Nov. 5	52.758	298	47.16	96	22.076	150	47.40	21
15	52.460	266	46.20	147	21.926	116	47.19	41
25	52.194	223	44.73	195	21.810	75	46.78	60
Dez. 5	51.971	174	42.78	239	21.735	31	46.18	76
15	51.797	118	40.39	275	21.704	16	45.42	90
25	51.679	59	37.64	302	21.720	64	44.52	102
35	51.620		34.62		21.784		43.50	
Mittl. Ort	52.331		27.77		18.775		42.43	
sec δ, tg δ	1.634		+1.292		1.228		−0.712	
a, *a'*	+1.6		+9.6		+3.9		+9.7	
b, *b'*	+0.04		+0.88		−0.02		+0.88	

Scheinbare Sternörter 1932

Tag	752) γ Sagittae AR.		752) γ Sagittae Dekl.		754) δ Pavonis AR.		754) δ Pavonis Dekl.	
1932	19h 55m		+19° 18′		20h 2m		−66° 21′	
Jan. 1	42.514	50	16.27	210	1.89	10	42.69	269
11	42.564	89	14.17	213	1.99	19	40.00	278
21	42.653	125	12.04	206	2.18	28	37.22	279
31	42.778	159	9.98	190	2.46	37	34.43	274
Feb. 10	42.937	191	8.08	167	2.83	44	31.69	262
20	43.128	219	6.41	135	3.27	51	29.07	245
März 1	43.347	246	5.06	98	3.78	57	26.62	223
11	43.593	268	4.08	55	4.35	62	24.39	196
21	43.861	285	3.53	10	4.97	65	22.43	167
31	44.146	300	3.43	37	5.62	69	20.76	134
Apr. 10	44.446	310	3.80	81	6.31	70	19.42	99
20	44.756	312	4.61	124	7.01	70	18.43	61
30	45.068	310	5.85	161	7.71	70	17.82	22
Mai 10	45.378	301	7.46	194	8.41	68	17.60	18
20	45.679	285	9.40	219	9.09	65	17.78	57
30	45.964	262	11.59	239	9.74	60	18.35	94
Juni 9	46.226	234	13.98	251	10.34	54	19.29	130
19	46.460	200	16.49	257	10.88	47	20.59	163
29	46.660	160	19.06	255	11.35	38	22.22	190
Juli 9	46.820	117	21.61	248	11.73	29	24.12	211
19	[21] 46.937	72	24.09	236	[23] 12.02	18	26.23	227
28	47.009	27	26.45	218	12.20	8	28.50	235
Aug. 7	47.036	18	28.63	196	12.28	2	30.85	233
17	47.018	61	30.59	171	12.26	12	33.18	225
27	46.957	99	32.30	144	12.14	22	35.43	207
Sept. 6	46.858	130	33.74	115	11.92	30	37.50	181
16	46.728	154	34.89	83	11.62	37	39.31	147
26	46.574	171	35.72	50	11.25	41	40.78	106
Okt. 6	46.403	178	36.22	17	10.84	43	41.84	61
16	46.225	175	36.39	16	10.41	44	42.45	13
26	46.050	164	36.23	50	9.97	42	42.58	37
Nov. 5	45.886	145	35.73	83	9.55	38	42.21	87
15	45.741	118	34.90	114	9.17	32	41.34	133
25	45.623	87	33.76	143	8.85	25	40.01	175
Dez. 5	45.536	51	32.33	169	8.60	16	38.26	212
15	45.485	13	30.64	189	8.44	6	36.14	240
25	45.472	26	28.75	203	8.38	3	33.74	262
35	45.498		26.72		8.41		31.12	
Mittl. Ort	43.949		22.76		4.35		27.98	
sec δ, tg δ	1.060		+0.350		2.494		−2.284	
a, *a′*	+2.7		+9.7		+5.7		+10.2	
b, *b′*	+0.01		+0.88		−0.08		+ 0.86	

Tag	756) ϑ Aquilae AR.		756) ϑ Aquilae Dekl.		759) ϰ Cephei AR.		759) ϰ Cephei Dekl.	
1932	20h 7m		−1° 1′		20h 11m		+77° 30′	
Jan. 1	46.584	60	36.68	101	5.54	39	27.38	310
11	46.644	94	37.69	98	5.15	20	24.28	330
21	46.738	128	38.67	91	4.95	1	20.98	337
31	46.866	158	39.58	79	4.94	19	17.61	331
Feb. 10	47.024	187	40.37	61	5.13	37	14.30	312
20	47.211	214	40.98	39	5.50	55	11.18	282
März 1	47.425	237	41.37	14	6.05	70	8.36	239
11	47.662	258	41.51	13	6.75	82	5.97	188
21	47.920	277	41.38	43	7.57	92	4.09	130
31	48.197	292	40.95	72	8.49	99	2.79	67
Apr. 10	48.489	303	40.23	99	9.48	102	2.12	3
20	48.792	309	39.24	123	10.50	101	2.09	60
30	49.101	310	38.01	143	11.51	98	2.69	121
Mai 10	49.411	305	36.58	159	12.49	91	3.90	178
20	49.716	294	34.99	169	13.40	82	5.68	228
30	50.010	275	33.30	175	14.22	70	7.96	271
Juni 9	50.285	250	31.55	175	14.92	56	10.67	307
19	50.535	220	29.80	170	15.48	41	13.74	333
29	50.755	184	28.10	162	15.89	24	17.07	351
Juli 9	50.939	144	26.48	149	16.13	7	20.58	361
19	[24] 51.083	100	24.99	134	[25] 16.20	9	24.19	362
28	51.183	56	23.65	117	16.11	26	27.81	355
Aug. 7	51.239	12	22.48	99	15.85	43	31.36	340
17	51.251	31	21.49	79	15.42	58	34.76	319
27	51.220	69	20.70	60	14.84	71	37.95	290
Sept. 6	51.151	101	20.10	42	14.13	83	40.85	255
16	51.050	127	19.68	24	13.30	93	43.40	216
26	50.923	145	19.44	6	12.37	101	45.56	170
Okt. 6	50.778	152	19.38	9	11.36	106	47.26	121
16	50.626	152	19.47	25	10.30	109	48.47	68
26	50.474	142	19.72	39	9.21	108	49.15	13
Nov. 5	50.332	124	20.11	53	8.13	105	49.28	44
15	50.208	99	20.64	65	7.08	100	48.84	102
25	50.109	70	21.29	77	6.08	91	47.82	157
Dez. 5	50.039	35	22.06	87	5.17	79	46.25	208
15	50.004	0	22.93	94	4.38	65	44.17	252
25	50.004	37	23.87	98	3.73	49	41.65	290
35	50.041		24.85		3.24		38.75	
Mittl. Ort	47.812		27.92		12.72		26.82	
sec δ, tg δ	1.000		−0.018		4.623		+4.513	
a, *a′*	+3.1		+10.6		−2.0		+10.9	
b, *b′*	0.00		+ 0.85		+0.16		+ 0.84	

Tag	757) o^1 Cygni sq. AR.		Dekl.		760) 24 Vulpeculae AR.		Dekl.		761) α^2 Capricorni AR.		Dekl.		765) γ Cygni AR.		Dekl.	
1932	$20^h\ 11^m$		$+46°\ 31'$		$20^h\ 13^m$		$+24°\ 27'$		$20^h\ 14^m$		$-12°\ 45'$		$20^h\ 19^m$		$+40°\ 1'$	
Jan. 1	$27\overset{s}{.}292$	23	$61\overset{''}{.}19$	295	$50\overset{s}{.}999$	25	$33\overset{''}{.}09$	225	$15\overset{s}{.}824$	62	$34\overset{''}{.}83$	31	$45\overset{s}{.}371$	13	$75\overset{''}{.}04$	274
11	27.269	31	58.24	307	51.024	65	30.84	230	15.886	97	35.14	25	45.358	34	72.30	286
21	27.300	85	55.17	307	51.089	102	28.54	226	15.983	131	35.39	17	45.392	81	69.44	286
31	27.385	137	52.10	295	51.191	139	26.28	213	16.114	162	35.56	6	45.473	128	66.58	275
Feb. 10	27.522	188	49.15	271	51.330	173	24.15	190	16.276	192	35.62	7	45.601	172	63.83	252
20	27.710	236	46.44	237	51.503	206	22.25	159	16.468	218	35.55	23	45.773	214	61.31	220
März 1	27.946	278	44.07	192	51.709	235	20.66	121	16.686	242	35.32	41	45.987	252	59.11	178
11	28.224	314	42.15	140	51.944	261	19.45	78	16.928	265	34.91	59	46.239	286	57.33	129
21	28.538	344	40.75	83	52.205	283	18.67	29	17.193	284	34.32	78	46.525	314	56.04	74
31	28.882	367	39.92	23	52.488	301	18.38	19	17.477	299	33.54	95	46.839	336	55.30	17
Apr. 10	29.249	381	39.69	39	52.789	314	18.57	68	17.776	312	32.59	111	47.175	350	55.13	41
20	29.630	385	40.08	97	53.103	320	19.25	115	18.088	320	31.48	124	47.525	358	55.54	97
30	30.015	380	41.05	153	53.423	320	20.40	157	18.408	322	30.24	132	47.883	357	56.51	150
Mai 10	30.395	367	42.58	204	53.743	313	21.97	194	18.730	319	28.92	137	48.240	347	58.01	198
20	30.762	343	44.62	247	54.056	299	23.91	225	19.049	308	27.55	138	48.587	329	59.99	239
30	31.105	311	47.09	282	54.355	277	26.16	249	19.357	290	26.17	133	48.916	302	62.38	273
Juni 9	31.416	272	49.91	310	54.632	249	28.65	266	19.647	267	24.84	126	49.218	268	65.11	298
19	31.688	224	53.01	329	54.881	215	31.31	275	19.914	236	23.58	115	49.486	227	68.09	315
29	31.912	172	56.30	340	55.096	176	34.06	278	20.150	201	22.43	101	49.713	181	71.24	326
Juli 9	32.084	116	59.70	342	55.272	132	36.84	274	20.351	160	21.42	85	49.894	131	74.50	328
19	32.200	57	63.12	337	[26] 55.404	86	39.58	264	20.511	116	20.57	69	50.025	77	77.78	321
28	[25] 32.257	2	66.49	323	55.490	39	42.22	247	[26] 20.627	69	19.88	51	[27] 50.102	23	80.99	309
Aug. 7	32.255	59	69.72	304	55.529	8	44.69	226	20.696	24	19.37	34	50.125	30	84.08	289
17	32.196	113	72.76	278	55.521	52	46.95	203	20.720	21	19.03	19	50.095	80	86.97	264
27	32.083	162	75.54	246	55.469	92	48.98	175	20.699	61	18.84	5	50.015	126	89.61	234
Sept. 6	31.921	204	78.00	209	55.377	127	50.73	143	20.638	95	18.79	6	49.889	166	91.95	199
16	31.717	238	80.09	169	55.250	154	52.16	110	20.543	123	18.85	16	49.723	198	93.94	161
26	31.479	263	81.78	124	55.096	173	53.26	75	20.420	143	19.01	23	49.525	221	95.55	119
Okt. 6	31.216	276	83.02	76	54.923	183	54.01	38	20.277	152	19.24	28	49.304	234	96.74	74
16	30.940	279	83.78	27	54.740	184	54.39	1	20.125	152	19.52	31	49.070	239	97.48	27
26	30.661	273	84.05	24	54.556	176	54.40	36	19.973	143	19.83	33	48.831	233	97.75	20
Nov. 5	30.388	255	83.81	76	54.380	160	54.04	74	19.830	126	20.16	35	48.598	217	97.55	68
15	30.133	229	83.05	125	54.220	137	53.30	109	19.704	100	20.51	36	48.381	194	96.87	115
25	29.904	194	81.80	172	54.083	108	52.21	143	19.604	70	20.87	36	48.187	164	95.72	159
Dez. 5	29.710	153	80.08	216	53.975	74	50.78	172	19.534	36	21.23	34	48.023	127	94.13	200
15	29.557	106	77.92	252	53.901	38	49.06	197	19.498	1	21.57	33	47.896	86	92.13	234
25	29.451	55	75.40	280	53.863	1	47.09	216	19.499	38	21.90	31	47.810	41	89.79	260
35	29.396		72.60		53.864		44.93		19.537		22.21		47.769		87.19	
Mittl. Ort	29.418		63.33		52.487		37.98		16.999		24.51		47.232		77.36	
sec δ, tg δ	1.454		+1.055		1.099		+0.455		1.025		−0.226		1.306		+0.840	
a, *a'*	+1.9		+10.9		+2.6		+11.1		+3.3		+11.1		+2.2		+11.5	
b, *b'*	+0.04		+ 0.84		+0.02		+ 0.83		−0.01		+ 0.83		+0.03		+ 0.82	

Scheinbare Sternörter 1932

Tag	764) α Pavonis AR.		Dekl.		767) ϑ Cephei AR.		Dekl.		768) ε Delphini AR.		Dekl.		770) 73 Draconis AR.		Dekl.	
1932	20h 20m		−56° 57′		20h 28m		+62° 45′		20h 29m		+11° 4′		20h 32m		+74° 42′	
Jan. 1	15.093	58	31.61	226	23.35	15	55.50	303	56.587	28	9.33	158	19.78	36	81.30	297
11	15.151	126	29.35	239	23.20	6	52.47	324	56.615	62	7.75	159	19.42	22	78.33	321
21	15.277	191	26.96	246	23.14	3	49.23	332	56.677	97	6.16	155	19.20	6	75.12	334
31	15.468	251	24.50	247	23.17	11	45.91	327	56.774	129	4.61	142	19.14	10	71.78	333
Feb. 10	15.719	307	22.03	243	23.28	19	42.64	309	56.903	160	3.19	123	19.24	25	68.45	320
20	16.026	357	19.60	235	23.47	27	39.55	279	57.063	189	1.96	98	19.49	40	65.25	293
März 1	16.383	402	17.25	221	23.74	35	36.76	238	57.252	217	0.98	66	19.89	53	62.32	255
11	16.785	441	15.04	205	24.09	41	34.38	188	57.469	242	0.32	31	20.42	64	59.77	207
21	17.226	474	12.99	183	24.50	46	32.50	131	57.711	265	0.01	7	21.06	74	57.70	151
31	17.700	500	11.16	159	24.96	50	31.19	68	57.976	284	0.08	45	21.80	80	56.19	91
April 10	18.200	520	9.57	132	25.46	52	30.51	4	58.260	298	0.53	84	22.60	84	55.28	26
20	18.720	531	8.25	101	25.98	53	30.47	59	58.558	308	1.37	119	23.44	86	55.02	37
30	19.251	533	7.24	69	26.51	53	31.06	121	58.866	312	2.56	151	24.30	84	55.39	99
Mai 10	19.784	525	6.55	35	27.04	50	32.27	178	59.178	309	4.07	178	25.14	80	56.38	158
20	20.309	507	6.20	1	27.54	47	34.05	229	59.487	299	5.85	201	25.94	73	57.96	211
30	20.816	477	6.21	36	28.01	42	36.34	272	59.786	283	7.86	215	26.67	65	60.07	258
Juni 9	21.293	436	6.57	71	28.43	37	39.06	308	60.069	260	10.01	224	27.32	55	62.65	296
19	21.729	386	7.28	103	28.80	29	42.14	336	60.329	231	12.25	228	27.87	43	65.61	327
29	22.115	326	8.31	132	29.09	22	45.50	355	60.560	195	14.53	225	28.30	30	68.88	349
Juli 9	22.441	257	9.63	158	29.31	14	49.05	364	60.755	155	16.78	217	28.60	16	72.37	363
19	22.698	183	11.21	177	29.45	6	52.69	366	60.910	112	18.95	205	28.76	2	76.00	368
28*)	[27] 22.881	105	12.98	191	[29] 29.51	3	56.35	359	[30] 61.022	68	21.00	189	[30] 28.78	12	79.68	365
Aug. 7	22.986	25	14.89	197	29.48	11	59.94	345	61.090	23	22.89	169	28.66	25	83.33	355
17	23.011	52	16.86	196	29.37	19	63.39	324	61.113	20	24.58	147	28.41	38	86.88	336
27	22.959	124	18.82	187	29.18	26	66.63	295	61.093	60	26.05	123	28.03	50	90.24	311
Sept. 6	22.835	188	20.69	170	28.92	32	69.58	260	61.033	94	27.28	98	27.53	61	93.35	279
16	22.647	241	22.39	146	28.60	37	72.18	221	60.939	122	28.26	73	26.92	69	96.14	242
26	22.406	279	23.85	114	28.23	42	74.39	176	60.817	143	28.99	46	26.23	77	98.56	198
Okt. 6	22.127	303	24.99	78	27.81	45	76.15	126	60.674	154	29.45	19	25.46	83	100.54	150
16	21.824	309	25.77	38	27.36	46	77.41	74	60.520	157	29.64	7	24.63	85	102.04	98
26	21.515	300	26.15	5	26.90	45	78.15	18	60.363	151	29.57	32	23.78	86	103.02	42
Nov. 5	21.215	273	26.10	49	26.45	44	78.33	38	60.212	138	29.25	58	22.92	85	103.44	16
15	20.942	234	25.61	91	26.01	42	77.95	95	60.074	117	28.67	82	22.07	81	103.28	73
25	20.708	182	24.70	129	25.59	38	77.00	150	59.957	92	27.85	104	21.26	75	102.55	130
Dez. 5	20.526	122	23.41	164	25.21	32	75.50	200	59.865	61	26.81	124	20.51	67	101.25	185
15	20.404	57	21.77	193	24.89	26	73.50	246	59.804	28	25.57	140	19.84	56	99.40	233
25	20.347	13	19.84	217	24.63	19	71.04	283	59.776	5	24.17	151	19.28	44	97.07	273
35	20.360		17.67		24.44		68.21		59.781		22.66		18.84		94.34	
Mittl. Ort	16.798		16.42		26.64		54.39		57.855		15.57		25.60		78.80	
sec δ, tg δ	1.834		−1.537		2.185		+1.943		1.019		+0.196		3.795		+3.661	
a, *a′*	+4.8		+11.5		+1.0		+12.1		+2.9		+12.2		−0.8		+12.4	
b, *b′*	−0.06		+ 0.82		+0.08		+ 0.80		+0.01		+ 0.79		+0.15		+ 0.79	

*) Bei Stern 767), 768) und 770) lies Juli 29

Tag	769) α Indi AR.	Δ	769) α Indi Dekl.	Δ	771) β Delphini AR.	Δ	771) β Delphini Dekl.	Δ
1932	20h 32m		−47° 31′		20h 34m		+14° 21′	
Jan. 1	46.088	45	63.37	176	20.313	21	21.45	171
11	46.133	97	61.61	190	20.334	55	19.74	175
21	46.230	148	59.71	200	20.389	89	17.99	171
31	46.378	196	57.71	207	20.478	123	16.28	159
Feb. 10	46.574	241	55.64	209	20.601	155	14.69	140
20	46.815	281	53.55	207	20.756	185	13.29	114
März 1	47.096	319	51.48	202	20.941	214	12.15	82
11	47.415	352	49.46	194	21.155	240	11.33	45
21	47.767	381	47.52	182	21.395	264	10.88	4
31	48.148	406	45.70	166	21.659	284	10.84	36
Apr. 10	48.554	425	44.04	148	21.943	299	11.20	77
20	48.979	439	42.56	126	22.242	310	11.97	116
30	49.418	444	41.30	101	22.552	314	13.13	150
Mai 10	49.862	442	40.29	73	22.866	311	14.63	181
20	50.304	430	39.56	44	23.177	302	16.44	205
30	50.734	409	39.12	14	23.479	286	18.49	223
Juni 9	51.143	380	38.98	18	23.765	263	20.72	236
19	51.523	340	39.16	49	24.028	233	23.08	240
29	51.863	292	39.65	77	24.261	198	25.48	240
Juli 9	52.155	238	40.42	103	24.459	158	27.88	234
19	52.393	177	41.45	125	24.617	114	30.22	222
29	52.570	113	42.70	143	24.731	70	32.44	207
Aug. 7	[30] 52.683	48	44.13	155	[31] 24.801	25	34.51	187
17	52.731	16	45.68	160	24.826	20	36.38	165
27	52.715	76	47.28	157	24.806	59	38.03	140
Sept. 6	52.639	130	48.85	149	24.747	94	39.43	114
16	52.509	174	50.34	133	24.653	123	40.57	86
26	52.335	208	51.67	111	24.530	144	41.43	58
Okt. 6	52.127	229	52.78	84	24.386	156	42.01	29
16	51.898	236	53.62	53	24.230	160	42.30	0
26	51.662	230	54.15	18	24.070	155	42.30	29
Nov. 5	51.432	211	54.33	18	23.915	142	42.01	56
15	51.221	181	54.15	52	23.773	123	41.45	84
25	51.040	142	53.63	86	23.650	98	40.61	110
Dez. 5	50.898	95	52.77	117	23.552	68	39.51	132
15	50.803	44	51.60	143	23.484	36	38.19	150
25	50.759	9	50.17	166	23.448	1	36.69	164
35	50.768		48.51		23.447		35.05	
Mittl. Ort	47.433		48.44		21.608		26.95	
sec δ, tg δ	1.481		−1.092		1.032		+0.256	
a, a′	+4.2		+12.4		+2.8		+12.5	
b, b′	−0.05		+ 0.79		+0.01		+ 0.78	

Tag	773) υ Capricorni AR.	Δ	773) υ Capricorni Dekl.	Δ	774) α Delphini AR.	Δ	774) α Delphini Dekl.	Δ
1932	20h 36m		−18° 22′		20h 36m		+15° 39′	
Jan. 1	9.772	43	56.59	6	27.467	16	70.57	176
11	9.815	78	56.53	15	27.483	52	68.81	180
21	9.893	112	56.38	25	27.535	86	67.01	177
31	10.005	145	56.13	36	27.621	120	65.24	166
Feb. 10	10.150	176	55.77	49	27.741	152	63.58	147
20	10.326	204	55.28	62	27.893	184	62.11	120
März 1	10.530	232	54.66	77	28.077	212	60.91	88
11	10.762	256	53.89	92	28.289	239	60.03	50
21	11.018	279	52.97	105	28.528	264	59.53	9
31	11.297	299	51.92	118	28.792	283	59.44	33
Apr. 10	11.596	315	50.74	129	29.075	300	59.77	74
20	11.911	326	49.45	135	29.375	310	60.51	114
30	12.237	332	48.10	139	29.685	315	61.65	150
Mai 10	12.569	332	46.71	137	30.000	312	63.15	181
20	12.901	324	45.34	133	30.312	304	64.96	207
30	13.225	311	44.01	125	30.616	287	67.03	226
Juni 9	13.536	289	42.76	112	30.903	265	69.29	239
19	13.825	260	41.64	97	31.168	234	71.68	245
29	14.085	225	40.67	80	31.402	199	74.13	246
Juli 9	14.310	185	39.87	60	31.601	159	76.59	241
19	14.495	141	39.27	42	31.760	116	79.00	229
29	14.636	94	38.85	23	31.876	71	81.29	213
Aug. 7	[31] 14.730	46	38.62	5	[31] 31.947	25	83.42	195
17	14.776	0	38.57	11	31.972	19	85.37	172
27	14.776	43	38.68	23	31.953	59	87.09	147
Sept. 6	14.733	82	38.91	33	31.894	94	88.56	121
16	14.651	112	39.24	40	31.800	123	89.77	92
26	14.539	136	39.64	43	31.677	145	90.69	63
Okt. 6	14.403	149	40.07	44	31.532	157	91.32	34
16	14.254	154	40.51	41	31.375	161	91.66	3
26	14.100	148	40.92	37	31.214	157	91.69	27
Nov. 5	13.952	134	41.29	32	31.057	145	91.42	56
15	13.818	112	41.61	26	30.912	125	90.86	84
25	13.706	84	41.87	18	30.787	101	90.02	111
Dez. 5	13.622	52	42.05	11	30.686	72	88.91	134
15	13.570	17	42.16	5	30.614	39	87.57	154
25	13.553	19	42.21	3	30.575	5	86.03	168
35	13.572		42.18		30.570		84.35	
Mittl. Ort	10.871		45.46		28.773		75.75	
sec δ, tg δ	1.054		−0.332		1.039		+0.281	
a, a′	+3.4		+12.6		+2.8		+12.6	
b, b′	−0.01		+ 0.78		+0.01		+ 0.78	

Tag	775) β Pavonis AR.		Dekl.		777) α Cygni AR.		Dekl.		780) ε Cygni AR.		Dekl.		783) η Cephei AR.		Dekl.	
1932	20h 38m		−66° 26′		20h 39m		+45° 1′		20h 43m		+33° 42′		20h 43m		+61° 34′	
	s		″		s		″		s		″		s		″	
Jan. 1	49.15	0	74.58	267	4.780	51	71.32	274	25.930	20	51.13	241	51.46	16	29.47	289
11	49.15	9	71.91	286	4.729	1	68.58	290	25.910	20	48.72	253	51.30	8	26.58	312
21	49.24	18	69.05	296	4.728	50	65.68	296	25.930	61	46.19	256	51.22	0	23.46	323
31	49.42	27	66.09	298	4.778	100	62.72	290	25.991	103	43.63	248	51.22	8	20.23	323
Feb. 10	49.69	35	63.11	294	4.878	151	59.82	271	26.094	143	41.15	230	51.30	16	17.00	308
20	50.04	42	60.17	284	5.029	199	57.11	242	26.237	183	38.85	201	51.46	24	13.92	282
März 1	50.46	49	57.33	268	5.228	244	54.69	202	26.420	219	36.84	165	51.70	31	11.10	244
11	50.95	55	54.65	246	5.472	285	52.67	155	26.639	254	35.19	120	52.01	38	8.66	196
21	51.50	60	52.19	220	5.757	319	51.12	101	26.893	283	33.99	70	52.39	43	6.70	141
31	52.10	63	49.99	190	6.076	348	50.11	44	27.176	308	33.29	18	52.82	47	5.29	81
Apr. 10	52.73	67	48.09	156	6.424	367	49.67	16	27.484	327	33.11	36	53.29	50	4.48	18
20	53.40	69	46.53	119	6.791	379	49.83	75	27.811	339	33.47	89	53.79	52	4.30	46
30	54.09	70	45.34	80	7.170	382	50.58	130	28.150	343	34.36	139	54.31	51	4.76	107
Mai 10	54.79	69	44.54	38	7.552	374	51.88	182	28.493	340	35.75	183	54.82	50	5.83	166
20	55.48	67	44.16	5	7.926	358	53.70	227	28.833	329	37.58	223	55.32	48	7.49	217
30	56.15	63	44.21	46	8.284	332	55.97	266	29.162	309	39.81	256	55.80	43	9.66	263
Juni 9	56.78	59	44.67	87	8.616	297	58.63	297	29.471	281	42.37	281	56.23	38	12.29	302
19	57.37	52	45.54	125	8.913	256	61.60	320	29.752	247	45.18	299	56.61	32	15.31	331
29	57.89	44	46.79	159	9.169	207	64.80	334	29.999	206	48.17	308	56.93	24	18.62	352
Juli 9	58.33	35	48.38	189	9.376	154	68.14	340	30.205	161	51.25	311	57.17	17	22.14	365
19	58.68	26	50.27	213	9.530	98	71.54	339	30.366	112	54.36	307	57.34	9	25.79	369
29	[1] 58.94	16	52.40	228	[1] 9.628	41	74.93	330	[2] 30.478	62	57.43	296	[2] 57.43	2	29.48	366
Aug. 7	59.10	5	54.68	236	9.669	17	78.23	314	30.540	12	60.39	278	57.45	7	33.14	354
17	59.15	6	57.04	236	9.652	71	81.37	292	30.552	37	63.17	256	57.38	15	36.68	335
27	59.09	15	59.40	226	9.581	121	84.29	264	30.515	81	65.73	229	57.23	22	40.03	309
Sept. 6	58.94	25	61.66	207	9.460	167	86.93	230	30.434	122	68.02	198	57.01	28	43.12	277
16	58.69	32	63.73	179	9.293	203	89.23	193	30.312	154	70.00	162	56.73	33	45.89	239
26	58.37	38	65.52	144	9.090	231	91.16	151	30.158	179	71.62	124	56.40	38	48.28	196
Okt. 6	57.99	43	66.96	102	8.859	250	92.67	105	29.979	195	72.86	85	56.02	41	50.24	147
16	57.56	44	67.98	55	8.609	259	93.72	58	29.784	202	73.71	42	55.61	42	51.71	96
26	57.12	44	68.53	4	8.350	258	94.30	8	29.582	201	74.13	2	55.19	43	52.67	42
Nov. 5	56.68	42	68.57	47	8.092	247	94.38	43	29.381	190	74.11	46	54.76	42	53.09	15
15	56.26	37	68.10	98	7.845	227	93.95	93	29.191	172	73.65	89	54.34	40	52.94	72
25	55.89	31	67.12	145	7.618	200	93.02	141	29.019	148	72.76	130	53.94	37	52.22	128
Dez. 5	55.58	24	65.67	188	7.418	165	91.61	186	28.871	117	71.46	167	53.57	32	50.94	180
15	55.34	16	63.79	225	7.253	125	89.75	225	28.754	83	69.79	200	53.25	26	49.14	227
25	55.18	6	61.54	255	7.128	79	87.50	256	28.671	45	67.79	227	52.99	20	46.87	266
35	55.12		58.99		7.049		84.94		28.626		65.52		52.79		44.21	
Mittl. Ort	51.21		57.99		6.790		71.46		27.555		52.75		54.58		27.06	
sec δ, tg δ	2.503		−2.294		1.415		+1.001		1.202		+0.667		2.101		+1.848	
a, *a′*	+5.4		+12.8		+2.0		+12.8		+2.4		+13.1		+1.2		+13.1	
b, *b′*	−0.10		+ 0.77		+0.04		+ 0.77		+0.03		+ 0.76		+0.08		+ 0.75	

Tag	781) ε Aquarii AR.	Δ	781) ε Aquarii Dekl.	Δ	784) λ Cygni AR.	Δ	784) λ Cygni Dekl.	Δ
1932	20h 43m		−9° 44′		20h 44m		+36° 14′	
Jan. 1	58.694	32	54.39	43	43.843	29	23.11	248
11	58.726	65	54.82	36	43.814	12	20.63	262
21	58.791	98	55.18	28	43.826	56	18.01	266
31	58.889	129	55.46	15	43.882	99	15.35	259
Feb. 10	59.018	160	55.61	0	43.981	142	12.76	240
20	59.178	188	55.61	17	44.123	182	10.36	213
März 1	59.366	215	55.44	37	44.305	221	8.23	175
11	59.581	240	55.07	59	44.526	256	6.48	130
21	59.821	263	54.48	80	44.782	288	5.18	80
31	60.084	284	53.68	100	45.070	313	4.38	27
Apr. 10	60.368	300	52.68	120	45.383	333	4.11	29
20	60.668	313	51.48	136	45.716	345	4.40	84
30	60.981	320	50.12	147	46.061	350	5.24	134
Mai 10	61.301	321	48.65	156	46.411	346	6.58	182
20	61.622	315	47.09	159	46.757	334	8.40	222
30	61.937	301	45.50	157	47.091	313	10.62	257
Juni 9	62.238	282	43.93	151	47.404	285	13.19	284
19	62.520	255	42.42	142	47.689	250	16.03	303
29	62.775	221	41.00	128	47.939	208	19.06	314
Juli 9	62.996	183	39.72	112	48.147	161	22.20	318
19	63.179	141	38.60	94	48.308	112	25.38	314
29	63.320	95	37.66	76	48.420	60	28.52	304
Aug. 7	63.415	50	36.90	57	48.480	8	31.56	288
17	63.465	5	36.33	38	48.488	41	34.44	265
27	63.470	37	35.95	21	48.447	87	37.09	238
Sept. 6	63.433	73	35.74	6	48.360	128	39.47	207
16	63.360	104	35.68	7	48.232	161	41.54	171
26	63.256	127	35.75	18	48.071	188	43.25	132
Okt. 6	63.129	141	35.93	27	47.883	204	44.57	91
16	62.988	146	36.20	33	47.679	212	45.48	47
26	62.842	141	36.53	39	47.467	211	45.95	2
Nov. 5	62.701	130	36.92	42	47.256	201	45.97	44
15	62.571	110	37.34	45	47.055	183	45.53	88
25	62.461	85	37.79	46	46.872	159	44.65	131
Dez. 5	62.376	56	38.25	46	46.713	127	43.34	171
15	62.320	24	38.71	46	46.586	93	41.63	206
25	62.296	10	39.17	43	46.493	54	39.57	233
35	62.306		39.60		46.439		37.24	
Mittl. Ort	59.779		44.79		45.533		24.22	
sec δ, tg δ	1.015		−0.172		1.240		+0.733	
a, a′	+3.2		+13.1		+2.3		+13.2	
b, b′	−0.01		+ 0.75		+0.03		+ 0.75	

Tag	785) β Indi AR.	Δ	785) β Indi Dekl.	Δ	786) 32 Vulpeculae AR.	Δ	786) 32 Vulpeculae Dekl.	Δ
1932	20h 49m		−58° 42′		20h 51m		+27° 47′	
Jan. 1	28.927	0	60.40	229	38.206	17	51.01	217
11	28.927	70	58.11	249	38.189	21	48.84	228
21	28.997	136	55.62	263	38.210	59	46.56	230
31	29.133	201	52.99	269	38.269	96	44.26	223
Feb. 10	29.334	263	50.30	270	38.365	134	42.03	205
20	29.597	319	47.60	266	38.499	171	39.98	178
März 1	29.916	370	44.94	256	38.670	205	38.20	144
11	30.286	418	42.38	241	38.875	237	36.76	102
21	30.704	459	39.97	222	39.112	266	35.74	56
31	31.163	494	37.75	198	39.378	291	35.18	7
Apr. 10	31.657	521	35.77	172	39.669	311	35.11	43
20	32.178	542	34.05	140	39.980	324	35.54	92
30	32.720	551	32.65	106	40.304	331	36.46	138
Mai 10	33.271	551	31.59	70	40.635	330	37.84	179
20	33.822	540	30.89	32	40.965	321	39.63	216
30	34.362	517	30.57	8	41.286	304	41.79	244
Juni 9	34.879	482	30.65	46	41.590	281	44.23	267
19	35.361	435	31.11	83	41.871	249	46.90	281
29	35.796	378	31.94	118	42.120	212	49.71	290
Juli 9	36.174	310	33.12	148	42.332	170	52.61	291
19	36.484	236	34.60	174	42.502	124	55.52	285
29	36.720	155	36.34	194	42.626	76	58.37	274
Aug. 7	36.875	72	38.28	206	42.702	28	61.11	256
17	36.947	10	40.34	211	42.730	18	63.67	235
27	36.937	89	42.45	207	42.712	62	66.02	209
Sept. 6	36.848	161	44.52	194	42.650	101	68.11	179
16	36.687	223	46.46	173	42.549	133	69.90	146
26	36.464	271	48.19	145	42.416	157	71.36	111
Okt. 6	36.193	305	49.64	111	42.259	173	72.47	75
16	35.888	322	50.75	70	42.086	181	73.22	36
26	35.566	323	51.45	25	41.905	181	73.58	4
Nov. 5	35.243	306	51.70	20	41.724	172	73.54	43
15	34.937	274	51.50	66	41.552	155	73.11	81
25	34.663	230	50.84	110	41.397	133	72.30	118
Dez. 5	34.433	175	49.74	150	41.264	105	71.12	152
15	34.258	112	48.24	186	41.159	73	69.60	181
25	34.146	45	46.38	216	41.086	38	67.79	205
35	34.101		44.22		41.048		65.74	
Mittl. Ort	30.451		43.87		39.672		53.16	
sec δ, tg δ	1.926		−1.646		1.130		+0.527	
a, a′	+4.7		+13.5		+2.6		+13.6	
b, b′	−0.07		+ 0.74		+0.02		+ 0.73	

Scheinbare Sternörter 1932

Tag	788) ν Cygni				790) ζ Microscopii				793) 61 Cygni pr.[1]				794) ν Aquarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	20h 54m		+40° 53′		20h 58m		−38° 53′		21h 3m		+38° 24′		21h 5m		−11° 38′	
Jan. 1	36.415	53	76.54	254	36.473	16	68.67	124	49.101	41	51.33	234	52.536	13	62.61	29
11	36.362	9	74.00	272	36.489	59	67.43	141	49.060	1	48.99	251	52.549	44	62.90	21
21	36.353	37	71.28	278	36.548	102	66.02	156	49.061	44	46.48	257	52.593	77	63.11	10
31	36.390	84	68.50	274	36.650	142	64.46	168	49.105	88	43.91	254	52.670	108	63.21	2
Feb. 10	36.474	130	65.76	258	36.792	180	62.78	177	49.193	133	41.37	238	52.778	139	63.19	18
20	36.604	175	63.18	232	36.972	218	61.01	183	49.326	176	38.99	213	52.917	168	63.01	35
März 1	36.779	219	60.86	196	37.190	252	59.18	187	49.502	217	36.86	178	53.085	198	62.66	55
11	36.998	258	58.90	151	37.442	285	57.31	187	49.719	257	35.08	135	53.283	225	62.11	74
21	37.256	293	57.39	100	37.727	315	55.44	184	49.976	291	33.73	85	53.508	251	61.37	95
31	37.549	323	56.39	46	38.042	341	53.60	179	50.267	321	32.88	32	53.759	274	60.42	114
Apr. 10	37.872	345	55.93	12	38.383	363	51.81	170	50.588	344	32.56	23	54.033	294	59.28	132
20	38.217	360	56.05	68	38.746	380	50.11	157	50.932	360	32.79	78	54.327	310	57.96	145
30	38.577	367	56.73	122	39.126	391	48.54	140	51.292	368	33.57	131	54.637	321	56.51	156
Mai 10	38.944	364	57.95	172	39.517	395	47.14	119	51.660	367	34.88	180	54.958	325	54.95	163
20	39.308	352	59.67	217	39.912	390	45.95	96	52.027	358	36.68	223	55.283	323	53.32	164
30	39.660	332	61.84	254	40.302	377	44.99	70	52.385	338	38.91	260	55.606	313	51.68	161
Juni 9	39.992	302	64.38	286	40.679	355	44.29	42	52.723	312	41.51	291	55.919	296	50.07	154
19	40.294	266	67.24	308	41.034	325	43.87	13	53.035	277	44.42	312	56.215	271	48.53	142
29	40.560	222	70.32	323	41.359	287	43.74	15	53.312	236	47.54	326	56.486	241	47.11	127
Juli 9	40.782	174	73.55	330	41.646	241	43.89	44	53.548	190	50.80	334	56.727	203	45.84	110
19	40.956	121	76.85	331	41.887	190	44.33	69	53.738	140	54.14	332	56.930	163	44.74	90
29	41.077	67	80.16	322	42.077	135	45.02	91	53.878	87	57.46	324	57.093	117	43.84	70
Aug. 7*)	41.144	13	83.38	307	42.212	77	45.93	109	53.965	34	60.70	310	57.210	72	43.14	49
17	41.157	39	86.45	287	42.289	21	47.02	122	53.999	16	63.80	290	57.282	26	42.65	30
27	41.118	88	89.32	261	42.310	34	48.24	129	53.983	65	66.70	263	57.308	17	42.35	12
Sept. 6	41.030	132	91.93	230	42.276	83	49.53	129	53.918	108	69.33	233	57.291	56	42.23	3
16	40.898	169	94.23	194	42.193	124	50.82	124	53.810	143	71.66	199	57.235	88	42.26	17
26	40.729	198	96.17	155	42.069	158	52.06	112	53.667	172	73.65	160	57.147	115	42.43	27
Okt. 6	40.531	218	97.72	112	41.911	181	53.18	94	53.495	192	75.25	119	57.032	132	42.70	35
16	40.313	228	98.84	66	41.730	191	54.12	72	53.303	204	76.44	75	56.900	140	43.05	40
26	40.085	230	99.50	19	41.539	191	54.84	47	53.099	205	77.19	29	56.760	140	43.45	43
Nov. 5	39.855	222	99.69	29	41.348	180	55.31	20	52.894	199	77.48	17	56.620	132	43.88	44
15	39.633	206	99.40	77	41.168	159	55.51	10	52.695	184	77.31	63	56.488	116	44.32	44
25	39.427	183	98.63	123	41.009	130	55.41	38	52.511	163	76.68	108	56.372	95	44.76	42
Dez. 5	39.244	153	97.40	166	40.879	94	55.03	65	52.348	135	75.60	149	56.277	68	45.18	40
15	39.091	118	95.74	205	40.785	55	54.38	90	52.213	102	74.11	186	56.209	39	45.58	36
25	38.973	79	93.69	237	40.730	12	53.48	113	52.111	65	72.25	217	56.170	8	45.94	31
35	38.894		91.32		40.718		52.35		52.046		70.08		56.162		46.25	
Mittl. Ort	38.226		76.15		37.544		54.12		50.815		50.93		53.531		52.92	
sec δ, tg δ	1.323		+0.866		1.285		−0.807		1.276		+0.793		1.021		−0.206	
a, *a*′	+2.2		+13.8		+3.8		+14.1		+2.3		+14.4		+3.3		+14.5	
b, *b*′	+0.04		+ 0.72		−0.04		+ 0.71		+0.04		+ 0.70		−0.01		+ 0.69	

[1]) Die jährliche Parallaxe (0.″30) ist bereits berücksichtigt

*) Bei Stern 794) lies Aug. 8

Tag	795) Br 2777				797) ζ Cygni				800) α Equulei				803) α Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	21h 6m		+77° 50′		21h 10m		+29° 56′		21h 12m		+4° 57′		21h 16m		+62° 17′	
Jan. 1	46.52	60	69.88	262	1.005	38	49.03	214	24.433	3	50.63	113	54.41	22	54.64	261
11	45.92	44	67.26	296	0.967	1	46.89	227	24.430	28	49.50	113	54.19	14	52.03	292
21	45.48	25	64.30	318	0.966	37	44.62	233	24.458	60	48.37	108	54.05	7	49.11	312
31	45.23	5	61.12	328	1.003	75	42.29	228	24.518	91	47.29	98	53.98	1	45.99	320
Feb. 10	45.18	14	57.84	325	1.078	113	40.01	214	24.609	121	46.31	81	53.99	10	42.79	313
20	45.32	33	54.59	309	1.191	152	37.87	189	24.730	152	45.50	60	54.09	18	39.66	296
März 1	45.65	52	51.50	280	1.343	189	35.98	158	24.882	182	44.90	34	54.27	26	36.70	266
11	46.17	68	48.70	240	1.532	224	34.40	117	25.064	210	44.56	4	54.53	33	34.04	224
21	46.85	81	46.30	191	1.756	257	33.23	72	25.274	238	44.52	27	54.86	40	31.80	175
31	47.66	93	44.39	135	2.013	285	32.51	23	25.512	263	44.79	61	55.26	45	30.05	118
Apr. 10	48.59	100	43.04	74	2.298	309	32.28	28	25.775	283	45.40	93	55.71	49	28.87	58
20	49.59	105	42.30	12	2.607	325	32.56	77	26.058	300	46.33	123	56.20	52	28.29	4
30	50.64	105	42.18	51	2.932	335	33.33	125	26.358	311	47.56	150	56.72	54	28.33	66
Mai 10	51.69	103	42.69	112	3.267	338	34.58	169	26.669	316	49.06	173	57.26	53	28.99	126
20	52.72	97	43.81	168	3.605	332	36.27	206	26.985	314	50.79	191	57.79	51	30.25	182
30	53.69	88	45.49	220	3.937	318	38.33	239	27.299	304	52.70	202	58.30	48	32.07	231
Juni 9	54.57	77	47.69	265	4.255	296	40.72	265	27.603	287	54.72	209	58.78	43	34.38	274
19	55.34	65	50.34	302	4.551	267	43.37	283	27.890	263	56.81	210	59.21	38	37.12	310
29	55.99	49	53.36	332	4.818	230	46.20	294	28.153	232	58.91	205	59.59	32	40.22	338
Juli 9	56.48	33	56.68	354	5.048	189	49.14	298	28.385	196	60.96	197	59.91	24	43.60	356
19	56.81	17	60.22	368	5.237	143	52.12	296	28.581	156	62.93	183	60.15	16	47.16	368
29	56.98	1	63.90	373	5.380	96	55.08	286	28.737	113	64.76	166	60.31	8	50.84	371
Aug. 8	56.97	17	67.63	371	5.476	46	57.94	271	28.850	68	66.42	147	60.39	0	54.55	366
17	8 56.80	34	71.34	360	9 5.522	1	60.65	251	9 28.918	25	67.89	126	11 60.39	8	58.21	353
27	56.46	49	74.94	342	5.521	46	63.16	227	28.943	17	69.15	104	60.31	16	61.74	333
Sept. 6	55.97	64	78.36	318	5.475	87	65.43	198	28.926	55	70.19	81	60.15	22	65.07	306
16	55.33	76	81.54	286	5.388	121	67.41	166	28.871	87	71.00	59	59.93	29	68.13	272
26	54.57	87	84.40	248	5.267	148	69.07	131	28.784	112	71.59	37	59.64	34	70.85	234
Okt. 6	53.70	96	86.88	204	5.119	168	70.38	94	28.672	129	71.96	16	59.30	38	73.19	190
16	52.74	102	88.92	155	4.951	179	71.32	55	28.543	138	72.12	5	58.92	40	75.09	140
26	51.72	106	90.47	102	4.772	182	71.87	16	28.405	140	72.07	25	58.52	42	76.49	88
Nov. 5	50.66	107	91.49	45	4.590	176	72.03	26	28.265	133	71.82	43	58.10	42	77.37	31
15	49.59	105	91.94	15	4.414	163	71.77	66	28.132	120	71.39	61	57.68	42	77.68	26
25	48.54	101	91.79	74	4.251	145	71.11	104	28.012	101	70.78	76	57.26	39	77.42	83
Dez. 5	47.53	93	91.05	132	4.106	120	70.07	141	27.911	77	70.02	90	56.87	35	76.59	139
15	46.60	82	89.73	186	3.986	91	68.66	173	27.834	50	69.12	101	56.52	31	75.20	190
25	45.78	70	87.87	234	3.895	58	66.93	199	27.784	22	68.11	108	56.21	26	73.30	236
35	45.08		85.53		3.837		64.94		27.762		67.03		55.95		70.94	
Mittl. Ort	53.60		63.79		2.462		49.62		25.511		56.55		57.46		49.16	
sec δ, tg δ	4.752		+4.645		1.154		+0.576		1.004		+0.087		2.151		+1.904	
a, *a′*	−1.2		+14.6		+2.6		+14.8		+3.0		+14.9		+1.4		+15.2	
b, *b′*	+0.23		+ 0.69		+0.03		+ 0.68		0.00		+ 0.67		+0.10		+ 0.65	

Tag	804) ι Pegasi AR.	Δ	804) ι Pegasi Dekl.	Δ	805) γ Pavonis AR.	Δ	805) γ Pavonis Dekl.	Δ	806) ζ Capricorni AR.	Δ	806) ζ Capricorni Dekl.	Δ	809) β Cephei AR.	Δ	809) β Cephei Dekl.	Δ
1932	21h 18m		+19° 30′		21h 20m		−65° 40′		21h 22m		−22° 42′		21h 27m		+70° 15′	
Jan. 1	55.231	26	43.12	172	49.12	10	49.65	251	46.402	2	36.83	32	43.22	37	50.42	248
11	55.205	7	41.40	181	49.02	1	47.14	279	46.400	31	36.51	47	42.85	27	47.94	285
21	55.212	40	39.59	182	49.01	7	44.35	298	46.431	64	36.04	61	42.58	17	45.09	310
31	55.252	74	37.77	176	49.08	15	41.37	311	46.495	98	35.43	76	42.41	5	41.99	323
Feb. 10	55.326	109	36.01	162	49.23	23	38.26	316	46.593	129	34.67	91	42.36	7	38.76	322
20	55.435	142	34.39	138	49.46	31	35.10	314	46.722	161	33.76	106	42.43	18	35.54	310
März 1	55.577	176	33.01	109	49.77	38	31.96	306	46.883	193	32.70	120	42.61	30	32.44	284
11	55.753	208	31.92	74	50.15	44	28.90	292	47.076	224	31.50	134	42.91	40	29.60	247
21	55.961	238	31.18	33	50.59	51	25.98	271	47.300	252	30.16	146	43.31	50	27.13	200
31	56.199	266	30.85	9	51.10	56	23.27	246	47.552	278	28.70	156	43.81	58	25.13	146
Apr. 10	56.465	289	30.94	52	51.66	60	20.81	216	47.830	302	27.14	164	44.39	63	23.67	86
20	56.754	307	31.46	94	52.26	63	18.65	182	48.132	321	25.50	167	45.02	68	22.81	25
30	57.061	318	32.40	135	52.89	66	16.83	143	48.453	335	23.83	167	45.70	70	22.56	38
Mai 10	57.379	324	33.75	170	53.55	67	15.40	101	48.788	343	22.16	162	46.40	69	22.94	100
20	57.703	321	35.45	201	54.22	66	14.39	58	49.131	344	20.54	153	47.09	67	23.94	158
30	58.024	310	37.46	226	54.88	65	13.81	13	49.475	336	19.01	140	47.76	63	25.52	210
Juni 9	58.334	293	39.72	244	55.53	61	13.68	31	49.811	321	17.61	123	48.39	57	27.62	257
19	58.627	267	42.16	256	56.14	56	13.99	75	50.132	298	16.38	103	48.96	50	30.19	296
29	58.894	235	44.72	262	56.70	50	14.74	116	50.430	268	15.35	81	49.46	41	33.15	329
Juli 9	59.129	198	47.34	261	57.20	42	15.90	153	50.698	231	14.54	57	49.87	30	36.44	353
19	59.327	156	49.95	254	57.62	34	17.43	186	50.929	188	13.97	33	50.17	21	39.97	368
29	59.483	111	52.49	243	57.96	24	19.29	211	51.117	143	13.64	9	50.38	10	43.65	376
Aug. 8	59.594	65	54.92	226	58.20	14	21.40	229	51.260	94	13.55	12	50.48	0	47.41	376
17	[11] 59.659	20	57.18	205	[12] 58.34	4	23.69	238	[12] 51.354	46	13.67	32	[13] 50.48	12	51.17	367
27	59.679	23	59.23	182	58.38	7	26.07	239	51.400	1	13.99	48	50.36	21	54.84	352
Sept. 6	59.656	61	61.05	156	58.31	16	28.46	230	51.399	44	14.47	61	50.15	31	58.36	328
16	59.595	95	62.61	127	58.15	24	30.76	210	51.355	81	15.08	69	49.84	39	61.64	298
26	59.500	121	63.88	98	57.91	32	32.86	183	51.274	111	15.77	72	49.45	47	64.62	262
Okt. 6	59.379	141	64.86	66	57.59	37	34.69	146	51.163	133	16.49	71	48.98	53	67.24	219
16	59.238	151	65.52	35	57.22	41	36.15	104	51.030	145	17.20	66	48.45	57	69.43	171
26	59.087	154	65.87	3	56.81	42	37.19	55	50.885	148	17.86	58	47.88	60	71.14	119
Nov. 5	58.933	150	65.90	30	56.39	42	37.74	4	50.737	143	18.44	46	47.28	61	72.33	62
15	58.783	139	65.60	61	55.97	39	37.78	49	50.594	129	18.90	34	46.67	61	72.95	4
25	58.644	120	64.99	91	55.58	35	37.29	101	50.465	109	19.24	20	46.06	59	72.99	56
Dez. 5	58.524	99	64.08	118	55.23	30	36.28	149	50.356	84	19.44	5	45.47	55	72.43	115
15	58.425	73	62.90	142	54.93	23	34.79	194	50.272	55	19.49	9	44.92	49	71.28	170
25	58.352	44	61.48	161	54.70	16	32.85	232	50.217	23	19.40	24	44.43	42	69.58	220
35	58.308		59.87		54.54		30.53		50.194		19.16		44.01		67.38	
Mittl. Ort	56.462		45.46		50.60		31.47		47.296		24.97		47.43		43.03	
sec δ, tg δ	1.061		+0.354		2.428		−2.212		1.084		−0.418		2.961		+2.787	
a, *a′*	+2.8		+15.3		+5.0		+15.4		+3.4		+15.5		+0.8		+15.8	
b, *b′*	+0.02		+ 0.65		−0.11		+ 0.64		−0.02		+ 0.63		+0.15		+ 0.62	

Tag	808) β Aquarii AR.		808) β Aquarii Dekl.		810) ν Octantis AR.		810) ν Octantis Dekl.		811) 74 Cygni AR.		811) 74 Cygni Dekl.		815) ε Pegasi AR.		815) ε Pegasi Dekl.	
1932	21h 27m		−5° 52′		21h 33m		−77° 41′		21h 34m		+40° 6′		21h 40m		+9° 33′	
Jan. 1	57.892	8	24.44	56	56.61	35	56.97	287	11.653	88	29.44	221	49.742	29	40.79	123
11	57.884	21	25.00	50	56.26	18	54.10	318	11.565	49	27.23	245	49.713	1	39.56	127
21	57.905	51	25.50	41	56.08	2	50.92	339	11.516	8	24.78	259	49.712	29	38.29	125
31	57.956	82	25.91	28	56.06	15	47.53	352	11.508	35	22.19	261	49.741	59	37.04	117
Feb. 10	58.038	112	26.19	13	56.21	31	44.01	357	11.543	81	19.58	253	49.800	90	35.87	102
20	58.150	142	26.32	7	56.52	47	40.44	353	11.624	127	17.05	234	49.890	122	34.85	83
März 1	58.292	172	26.25	29	56.99	61	36.91	342	11.751	173	14.71	205	50.012	155	34.02	57
11	58.464	202	25.96	52	57.60	75	33.49	322	11.924	217	12.66	167	50.167	187	33.45	26
21	58.666	230	25.44	77	58.35	87	30.27	297	12.141	258	10.99	122	50.354	217	33.19	7
31	58.896	256	24.67	101	59.22	97	27.30	266	12.399	294	9.77	71	50.571	246	33.26	42
Apr. 10	59.152	279	23.66	124	60.19	106	24.64	230	12.693	325	9.06	17	50.817	272	33.68	77
20	59.431	299	22.42	144	61.25	112	22.34	188	13.018	348	8.89	37	51.089	292	34.45	112
30	59.730	312	20.98	161	62.37	117	20.46	144	13.366	363	9.26	91	51.381	308	35.57	143
Mai 10	60.042	320	19.37	173	63.54	119	19.02	96	13.729	370	10.17	142	51.689	318	37.00	170
20	60.362	321	17.64	181	64.73	119	18.06	46	14.099	367	11.59	189	52.007	319	38.70	193
30	60.683	314	15.83	183	65.92	115	17.60	5	14.466	354	13.48	229	52.326	313	40.63	210
Juni 9	60.997	300	14.00	181	67.07	110	17.65	54	14.820	333	15.77	264	52.639	300	42.73	221
19	61.297	279	12.19	173	68.17	102	18.19	103	15.153	302	18.41	291	52.939	280	44.94	227
29	61.576	251	10.46	162	69.19	90	19.22	148	15.455	264	21.32	310	53.219	252	47.21	227
Juli 9	61.827	216	8.84	147	70.09	77	20.70	188	15.719	221	24.42	323	53.471	218	49.48	221
19	62.043	177	7.37	129	70.86	61	22.58	222	15.940	172	27.65	328	53.689	180	51.69	211
29	62.220	134	6.08	109	71.47	43	24.80	250	16.112	120	30.93	325	53.869	137	53.80	197
Aug. 8	62.354	89	4.99	89	71.90	25	27.30	269	16.232	67	34.18	316	54.006	93	55.77	179
17	62.443	45	4.10	67	72.15	6	29.99	277	16.299	15	37.34	301	54.099	50	57.56	158
27	62.488	1	3.43	47	72.21	13	32.76	277	16.314	36	40.35	279	54.149	7	59.14	136
Sept. 6	62.489	37	2.96	27	72.08	32	35.53	264	16.278	82	43.14	253	54.156	32	60.50	112
16	62.452	71	2.69	9	71.76	49	38.17	242	16.196	123	45.67	221	54.124	67	61.62	87
26	62.381	99	2.60	6	71.27	63	40.59	210	16.073	156	47.88	186	54.057	94	62.49	63
Okt. 6	62.282	118	2.66	19	70.64	75	42.69	168	15.917	182	49.74	146	53.963	115	63.12	39
16	62.164	130	2.85	31	69.89	84	44.37	119	15.735	200	51.20	104	53.848	129	63.51	15
26	62.034	134	3.16	39	69.05	89	45.56	64	15.535	209	52.24	60	53.719	134	63.66	9
Nov. 5	61.900	129	3.55	46	68.16	90	46.20	5	15.326	209	52.84	12	53.585	133	63.57	31
15	61.771	118	4.01	52	67.26	87	46.25	56	15.117	203	52.96	34	53.452	125	63.26	52
25	61.653	101	4.53	55	66.39	81	45.69	114	14.914	188	52.62	81	53.327	111	62.74	72
Dez. 5	61.552	79	5.08	58	65.58	72	44.55	170	14.726	167	51.81	126	53.216	93	62.02	90
15	61.473	54	5.66	59	64.86	59	42.85	221	14.559	141	50.55	167	53.123	71	61.12	106
25	61.419	27	6.25	56	64.27	45	40.64	264	14.418	109	48.88	202	53.052	46	60.06	116
35	61.392		6.81		63.82		38.00		14.309		46.86		53.006		58.90	
Mittl. Ort	58.826		16.44		59.02		37.74		13.296		26.31		50.758		44.52	
sec δ, tg δ	1.005		−0.103		4.692		−4.584		1.307		+0.842		1.014		+0.168	
a, *a′*	+3.2		+15.8		+6.7		+16.1		+2.4		+16.1		+2.9		+16.5	
b, *b′*	−0.01		+0.62		−0.25		+0.59		+0.05		+0.59		+0.01		+0.57	

Scheinbare Sternörter 1932

Tag	819) δ Capricorni AR.	Diff.	819) δ Capricorni Dekl.	Diff.	821) π² Cygni AR.	Diff.	821) π² Cygni Dekl.	Diff.
1932	21h 43m		−16° 25′		21h 44m		+48° 59′	
Jan. 1	16.589	18	82.53	3	14.808	138	44.87	227
11	16.571	11	82.56	11	14.670	95	42.60	256
21	16.582	41	82.45	24	14.575	46	40.04	277
31	16.623	71	82.21	39	14.529	6	37.27	285
Feb. 10	16.694	103	81.82	56	14.535	61	34.42	281
20	16.797	134	81.26	74	14.596	117	31.61	266
März 1	16.931	165	80.52	92	14.713	173	28.95	240
11	17.096	197	79.60	111	14.886	226	26.55	204
21	17.293	227	78.49	128	15.112	276	24.51	159
31	17.520	255	77.21	144	15.388	320	22.92	107
Apr. 10	17.775	281	75.77	157	15.708	358	21.85	52
20	18.056	303	74.20	167	16.066	387	21.33	6
30	18.359	319	72.53	175	16.453	405	21.39	63
Mai 10	18.678	330	70.78	177	16.858	413	22.02	119
20	19.008	335	69.01	174	17.271	410	23.21	171
30	19.343	331	67.27	166	17.681	396	24.92	218
Juni 9	19.674	319	65.61	154	18.077	373	27.10	258
19	19.993	299	64.07	139	18.450	338	29.68	292
29	20.292	272	62.68	120	18.788	297	32.60	318
Juli 9	20.564	239	61.48	99	19.085	247	35.78	336
19	20.803	200	60.49	75	19.332	192	39.14	346
29	21.003	157	59.74	51	19.524	134	42.60	349
Aug. 8	21.160	110	59.23	28	19.658	74	46.09	345
17*)	21.270	64	58.95	6	19.732	15	49.54	333
27	21.334	19	58.89	14	19.747	43	52.87	314
Sept. 6	21.353	23	59.03	31	19.704	95	56.01	291
16	21.330	59	59.34	44	19.609	143	58.92	260
26	21.271	91	59.78	53	19.466	182	61.52	224
Okt. 6	21.180	114	60.31	59	19.284	215	63.76	184
16	21.066	128	60.90	61	19.069	238	65.60	139
26	20.938	135	61.51	59	18.831	253	66.99	92
Nov. 5	20.803	133	62.10	55	18.578	258	67.91	42
15	20.670	124	62.65	49	18.320	254	68.33	11
25	20.546	108	63.14	40	18.066	243	68.22	63
Dez. 5	20.438	88	63.54	31	17.823	222	67.59	114
15	20.350	64	63.85	21	17.601	195	66.45	161
25	20.286	37	64.06	9	17.406	161	64.84	203
35	20.249		64.15		17.245		62.81	
Mittl. Ort	17.400		72.27		16.756		39.23	
sec δ, tg δ	1.043		−0.295		1.524		+1.150	
a, *a′*	+3.3		+16.6		+2.2		+16.6	
b, *b′*	−0.02		+ 0.56		+0.06		+ 0.56	

Tag	822) γ Gruis AR.	Diff.	822) γ Gruis Dekl.	Diff.	823) 16 Pegasi AR.	Diff.	823) 16 Pegasi Dekl.	Diff.
1932	21h 49m		−37° 40′		21h 49m		+25° 36′	
Jan. 1	48.250	41	83.11	104	56.789	60	16.96	174
11	48.209	4	82.07	129	56.729	31	15.22	190
21	48.205	34	80.78	151	56.698	2	13.32	198
31	48.239	71	79.27	171	56.700	36	11.34	197
Feb. 10	48.310	110	77.56	187	56.736	72	9.37	188
20	48.420	148	75.69	200	56.808	109	7.49	169
März 1	48.568	186	73.69	210	56.917	147	5.80	142
11	48.754	223	71.59	217	57.064	184	4.38	108
21	48.977	259	69.42	221	57.248	219	3.30	69
31	49.236	292	67.21	219	57.467	253	2.61	26
Apr. 10	49.528	323	65.02	214	57.720	282	2.35	20
20	49.851	349	62.88	205	58.002	305	2.55	65
30	50.200	370	60.83	191	58.307	323	3.20	110
Mai 10	50.570	383	58.92	172	58.630	333	4.30	151
20	50.953	389	57.20	149	58.963	336	5.81	188
30	51.342	386	55.71	123	59.299	329	7.69	220
Juni 9	51.728	375	54.48	94	59.628	314	9.89	244
19	52.103	353	53.54	61	59.942	292	12.33	264
29	52.456	323	52.93	28	60.234	263	14.97	275
Juli 9	52.779	285	52.65	5	60.497	227	17.72	281
19	53.064	240	52.70	36	60.724	186	20.53	280
29	53.304	189	53.06	67	60.910	141	23.33	273
Aug. 8	53.493	135	53.73	93	61.051	95	26.06	261
17*)	53.628	79	54.66	114	61.146	48	28.67	243
27	53.707	24	55.80	130	61.194	4	31.10	222
Sept. 6	53.731	27	57.10	139	61.198	37	33.32	197
16	53.704	74	58.49	142	61.161	75	35.29	168
26	53.630	114	59.91	138	61.086	105	36.97	138
Okt. 6	53.516	144	61.29	127	60.981	128	38.35	105
16	53.372	165	62.56	110	60.853	145	39.40	71
26	53.207	177	63.66	88	60.708	154	40.11	36
Nov. 5	53.030	176	64.54	62	60.554	156	40.47	1
15	52.854	168	65.16	33	60.398	150	40.46	36
25	52.686	151	65.49	2	60.248	139	40.10	72
Dez. 5	52.535	126	65.51	30	60.109	122	39.38	105
15	52.409	98	65.21	60	59.987	102	38.33	135
25	52.311	64	64.61	88	59.885	77	36.98	160
35	52.247		63.73		59.808		35.38	
Mittl. Ort	48.995		68.18		58.004		16.14	
sec δ, tg δ	1.264		−0.773		1.109		+0.479	
a, *a′*	+3.6		+16.9		+2.7		+16.9	
b, *b′*	−0.04		+ 0.54		+0.03		+ 0.54	

*) Bei Stern 822) und 823) lies Aug. 18

Tag	827) α Aquarii AR.		827) α Aquarii Dekl.		828) ι Aquarii AR.		828) ι Aquarii Dekl.		830) 20 Cephei AR.		830) 20 Cephei Dekl.		829) α Gruis AR.		829) α Gruis Dekl.	
1932	22ʰ 2ᵐ		−0° 38′		22ʰ 2ᵐ		−14° 11′		22ʰ 2ᵐ		+62° 26′		22ʰ 3ᵐ		−47° 17′	
Jan. 1	16.692	35	69.07	74	45.285	34	70.43	14	53.64	28	81.88	214	56.685	78	45.93	143
11	16.657	11	69.81	71	45.251	8	70.57	1	53.36	21	79.74	253	56.607	37	44.50	174
21	16.646	15	70.52	64	45.243	21	70.58	14	53.15	15	77.21	283	56.570	7	42.76	201
31	16.661	44	71.16	52	45.264	49	70.44	29	53.00	8	74.38	302	56.577	52	40.75	224
Feb. 10	16.705	74	71.68	38	45.313	80	70.15	47	52.92	0	71.36	308	56.629	97	38.51	242
20	16.779	105	72.06	18	45.393	111	69.68	65	52.92	9	68.28	301	56.726	142	36.09	254
März 1	16.884	137	72.24	4	45.504	143	69.03	85	53.01	18	65.27	283	56.868	187	33.55	262
11	17.021	169	72.20	30	45.647	176	68.18	105	53.19	25	62.44	252	57.055	231	30.93	265
21	17.190	200	71.90	57	45.823	207	67.13	124	53.44	33	59.92	211	57.286	274	28.28	263
31	17.390	230	71.33	85	46.030	237	65.89	143	53.77	40	57.81	161	57.560	315	25.65	256
Apr. 10	17.620	259	70.48	112	46.267	266	64.46	159	54.17	46	56.20	107	57.875	352	23.09	245
20	17.879	283	69.36	137	46.533	290	62.87	172	54.63	49	55.13	48	58.227	383	20.64	227
30	18.162	301	67.99	159	46.823	310	61.15	181	55.12	53	54.65	13	58.610	409	18.37	205
Mai 10	18.463	315	66.40	177	47.133	324	59.34	185	55.65	54	54.78	73	59.019	427	16.32	180
20	18.778	321	64.63	191	47.457	331	57.49	186	56.19	54	55.51	131	59.446	437	14.52	148
30	19.099	319	62.72	199	47.788	331	55.63	180	56.73	53	56.82	184	59.883	437	13.04	113
Juni 9	19.418	310	60.73	202	48.119	322	53.83	171	57.26	49	58.66	233	60.320	426	11.91	77
19	19.728	294	58.71	199	48.441	305	52.12	157	57.75	45	60.99	275	60.746	405	11.14	37
29	20.022	269	56.72	192	48.746	281	50.55	139	58.20	40	63.74	310	61.151	373	10.77	2
Juli 9	20.291	239	54.80	181	49.027	250	49.16	118	58.60	33	66.84	337	61.524	333	10.79	40
19	20.530	202	52.99	165	49.277	213	47.98	95	58.93	26	70.21	357	61.857	284	11.19	77
29	20.732	162	51.34	146	49.490	172	47.03	70	59.19	18	73.78	369	62.141	227	11.96	111
Aug. 8	20.894	119	49.88	125	49.662	127	46.33	46	59.37	10	77.47	373	62.368	167	13.07	139
18	21.013	75	48.63	104	49.789	82	45.87	23	59.47	3	81.20	368	62.535	103	14.46	162
27	^{22}21.088	33	47.59	81	^{22}49.871	38	45.64	1	^{22}59.50	6	84.88	357	^{22}62.638	39	16.08	178
Sept. 6	21.121	7	46.78	59	49.909	5	45.63	18	59.44	13	88.45	338	62.677	22	17.86	186
16	21.114	43	46.19	38	49.904	43	45.81	34	59.31	20	91.83	313	62.655	79	19.72	186
26	21.071	73	45.81	18	49.861	75	46.15	46	59.11	25	94.96	280	62.576	127	21.58	178
Okt. 6	20.998	97	45.63	1	49.786	99	46.61	55	58.86	30	97.76	242	62.449	166	23.36	161
16	20.901	113	45.62	15	49.687	117	47.16	59	58.56	35	100.18	197	62.283	196	24.97	138
26	20.788	121	45.77	30	49.570	127	47.75	61	58.21	38	102.15	149	62.087	213	26.35	108
Nov. 5	20.667	123	46.07	42	49.443	128	48.36	59	57.83	39	103.64	95	61.874	218	27.43	73
15	20.544	119	46.49	52	49.315	123	48.95	55	57.44	40	104.59	39	61.656	212	28.16	34
25	20.425	108	47.01	60	49.192	111	49.50	48	57.04	40	104.98	19	61.444	198	28.50	6
Dez. 5	20.317	92	47.61	67	49.081	94	49.98	40	56.64	37	104.79	77	61.246	173	28.44	46
15	20.225	74	48.28	71	48.987	74	50.38	31	56.27	35	104.02	132	61.073	142	27.98	86
25	20.151	52	48.99	73	48.913	51	50.69	20	55.92	31	102.70	184	60.931	105	27.12	123
35	20.099		49.72		48.862		50.89		55.61		100.86		60.826		25.89	
Mittl. Ort	17.514		63.38		46.008		61.07		56.42		72.43		57.356		29.15	
sec δ, tg δ	1.000		−0.011		1.032		−0.253		2.163		+1.917		1.474		−1.083	
a, a'	+3.1		+17.5		+3.2		+17.5		+1.8		+17.5		+3.8		+17.5	
b, b'	0.00		+ 0.49		−0.01		+ 0.49		+0.11		+ 0.49		−0.06		+ 0.48	

Scheinbare Sternörter 1932

Tag	834) ϑ Pegasi AR.		Dekl.		835) π Pegasi AR.		Dekl.		836) ζ Cephei AR.		Dekl.		837) 24 Cephei AR.		Dekl.	
1932	22h 6m		+5° 51′		22h 6m		+32° 50′		22h 8m		+57° 51′		22h 8m		+72° 0′	
Jan. 1	45.321	44	41.69	99	56.621	90	41.78	181	27.187	230	65.13	208	26.04	49	32.77	201
11	45.277	18	40.70	101	56.531	60	39.97	204	26.957	180	63.05	247	25.55	40	30.76	247
21	45.259	8	39.69	98	56.471	28	37.93	217	26.777	124	60.58	275	25.15	30	28.29	281
31	45.267	36	38.71	89	56.443	9	35.76	222	26.653	61	57.83	293	24.85	18	25.48	305
Feb. 10	45.303	66	37.82	76	56.452	48	33.54	218	26.592	8	54.90	298	24.67	6	22.43	317
20	45.369	98	37.06	57	56.500	89	31.36	202	26.600	80	51.92	291	24.61	7	19.26	315
März 1	45.467	131	36.49	34	56.589	130	29.34	179	26.680	152	49.01	273	24.68	21	16.11	301
11	45.598	164	36.15	6	56.719	173	27.55	147	26.832	222	46.28	242	24.89	33	13.10	273
21	45.762	196	36.09	24	56.892	213	26.08	108	27.054	290	43.86	202	25.22	44	10.37	236
31	45.958	228	36.33	56	57.105	251	25.00	63	27.344	350	41.84	154	25.66	55	8.01	189
Apr. 10	46.186	256	36.89	88	57.356	286	24.37	15	27.694	401	40.30	100	26.21	63	6.12	136
20	46.442	281	37.77	119	57.642	313	24.22	34	28.095	441	39.30	42	26.84	70	4.76	76
30	46.723	301	38.96	146	57.955	335	24.56	83	28.536	470	38.88	18	27.54	74	4.00	16
Mai 10	47.024	315	40.42	171	58.290	348	25.39	129	29.006	486	39.06	76	28.28	76	3.84	45
20	47.339	321	42.13	191	58.638	352	26.68	171	29.492	488	39.82	133	29.04	76	4.29	105
30	47.660	320	44.04	205	58.990	349	28.39	210	29.980	476	41.15	185	29.80	73	5.34	162
Juni 9	47.980	311	46.09	214	59.339	335	30.49	242	30.456	451	43.00	232	30.53	69	6.96	214
19	48.291	294	48.23	218	59.674	313	32.91	267	30.907	415	45.32	274	31.22	62	9.10	259
29	48.585	270	50.41	216	59.987	284	35.58	286	31.322	369	48.06	306	31.84	54	11.69	299
Juli 9	48.855	239	52.57	209	60.271	248	38.44	298	31.691	313	51.12	333	32.38	45	14.68	331
19	49.094	203	54.66	197	60.519	206	41.42	302	32.004	251	54.45	352	32.83	35	17.99	355
29	49.297	164	56.63	181	60.725	160	44.44	301	32.255	183	57.97	362	33.18	24	21.54	371
Aug. 8	49.461	121	58.44	163	60.885	112	47.45	293	32.438	114	61.59	366	33.42	12	25.25	380
18	49.582	78	60.07	142	60.997	64	50.38	279	32.552	43	65.25	360	33.54	1	29.05	380
27	[23]49.660	35	61.49	120	[23]61.061	17	53.17	261	[24]32.595	25	68.85	349	[24]33.55	10	32.85	373
Sept. 6	49.695	5	62.69	97	61.078	28	55.78	237	32.570	90	72.34	330	33.45	21	36.58	358
16	49.690	41	63.66	74	61.050	68	58.15	209	32.480	150	75.64	304	33.24	31	40.16	336
26	49.649	71	64.40	51	60.982	102	60.24	179	32.330	203	78.68	272	32.93	41	43.52	306
Okt. 6	49.578	94	64.91	28	60.880	129	62.03	144	32.127	247	81.40	234	32.52	48	46.58	270
16	49.484	111	65.19	8	60.751	150	63.47	107	31.880	283	83.74	191	32.04	54	49.28	228
26	49.373	121	65.27	11	60.601	163	64.54	68	31.597	309	85.65	144	31.50	60	51.56	179
Nov. 5	49.252	124	65.16	30	60.438	168	65.22	28	31.288	325	87.09	91	30.90	63	53.35	125
15	49.128	120	64.86	47	60.270	167	65.50	13	30.963	331	88.00	36	30.27	65	54.60	67
25	49.008	110	64.39	62	60.103	160	65.37	54	30.632	327	88.36	19	29.62	65	55.27	7
Dez. 5	48.898	97	63.77	76	59.943	147	64.83	94	30.305	312	88.17	76	28.97	63	55.34	53
15	48.801	79	63.01	87	59.796	129	63.89	131	29.993	287	87.41	130	28.34	59	54.81	113
25	48.722	57	62.14	95	59.667	105	62.58	163	29.706	254	86.11	179	27.75	53	53.68	169
35	48.665		61.19		59.562		60.95		29.452		84.32		27.22		51.99	
Mittl. Ort	46.183		45.39		57.912		38.11		29.521		55.97		30.25		21.60	
sec δ, tg δ	1.005		+0.103		1.190		+0.646		1.880		+1.592		3.237		+3.079	
a, a'	+3.0		+17.6		+2.7		+17.7		+2.1		+17.7		+1.1		+17.7	
b, b'	+0.01		+ 0.47		+0.04		+ 0.47		+0.09		+ 0.47		+0.18		+ 0.47	

Obere Kulmination Greenwich

Tag	840) ϑ Aquarii AR.		Dekl.		841) α Tucanae AR.		Dekl.		842) γ Aquarii AR.		Dekl.		844) 3 Lacertae AR.		Dekl.	
1932	$22^h 13^m$		−8° 7′		$22^h 13^m$		−60° 35′		$22^h 18^m$		−1° 43′		$22^h 20^m$		+51° 53′	
Jan. 1	14.105	42	28.70	41	50.87	16	76.92	195	7.938	46	56.02	67	51.060	189	25.00	193
11	14.063	17	29.11	31	50.71	10	74.97	233	7.892	23	56.69	63	50.871	150	23.07	231
21	14.046	9	29.42	20	50.61	5	72.64	263	7.869	2	57.32	55	50.721	105	20.76	258
31	14.055	37	29.62	7	50.56	2	70.01	288	7.871	29	57.87	43	50.616	53	18.18	275
Feb. 10	14.092	66	29.69	10	50.58	9	67.13	305	7.900	59	58.30	28	50.563	3	15.43	281
20	14.158	98	29.59	30	50.67	15	64.08	316	7.959	89	58.58	9	50.566	62	12.62	275
März 1	14.256	129	29.29	51	50.82	22	60.92	320	8.048	121	58.67	13	50.628	124	9.87	258
11	14.385	161	28.78	74	51.04	27	57.72	317	8.169	154	58.54	38	50.752	186	7.29	229
21	14.546	193	28.04	96	51.31	34	54.55	309	8.323	188	58.16	64	50.938	244	5.00	190
31	14.739	225	27.08	120	51.65	39	51.46	294	8.511	219	57.52	91	51.182	298	3.10	145
Apr. 10	14.964	255	25.88	141	52.04	44	48.52	273	8.730	249	56.61	117	51.480	346	1.65	93
20	15.219	280	24.47	159	52.48	49	45.79	246	8.979	275	55.44	141	51.826	386	0.72	37
30	15.499	301	22.88	174	52.97	52	43.33	214	9.254	297	54.03	163	52.212	414	0.35	19
Mai 10	15.800	317	21.14	185	53.49	55	41.19	178	9.551	312	52.40	180	52.626	432	0.54	76
20	16.117	325	19.29	192	54.04	56	39.41	138	9.863	321	50.60	193	53.058	439	1.30	130
30	16.442	325	17.37	193	54.60	57	38.03	94	10.184	322	48.67	200	53.497	433	2.60	180
Juni 9	16.767	318	15.44	189	55.17	55	37.09	49	10.506	316	46.67	202	53.930	417	4.40	226
19	17.085	304	13.55	180	55.72	52	36.60	2	10.822	301	44.65	199	54.347	388	6.66	265
29	17.389	281	11.75	167	56.24	49	36.58	44	11.123	279	42.66	191	54.735	350	9.31	297
Juli 9	17.670	251	10.08	150	56.73	44	37.02	88	11.402	251	40.75	179	55.085	305	12.28	322
19	17.921	217	8.58	130	57.17	37	37.90	130	11.653	216	38.96	163	55.390	252	15.50	340
29	18.138	176	7.28	108	57.54	30	39.20	166	11.869	176	37.33	144	55.642	194	18.90	350
Aug. 8	18.314	133	6.20	84	57.84	22	40.86	195	12.045	135	35.89	122	55.836	134	22.40	352
18	18.447	90	5.36	61	58.06	14	42.81	219	12.180	92	34.67	100	55.970	72	25.92	347
27	[25] 18.537	46	4.75	38	[25] 58.20	5	45.00	233	[26] 12.272	49	33.67	77	[27] 56.042	11	29.39	336
Sept. 6	18.583	5	4.37	17	58.25	3	47.33	238	12.321	8	32.90	54	56.053	46	32.75	317
16	18.588	33	4.20	2	58.22	12	49.71	234	12.329	28	32.36	33	56.007	98	35.92	292
26	18.555	64	4.22	19	58.10	19	52.05	219	12.301	60	32.03	14	55.909	146	38.84	262
Okt. 6	18.491	89	4.41	31	57.91	24	54.24	195	12.241	85	31.89	4	55.763	185	41.46	226
16	18.402	107	4.72	42	57.67	29	56.19	162	12.156	103	31.93	19	55.578	218	43.72	184
26	18.295	119	5.14	49	57.38	32	57.81	122	12.053	114	32.12	32	55.360	242	45.56	140
Nov. 5	18.176	121	5.63	53	57.06	34	59.03	77	11.939	118	32.44	43	55.118	256	46.96	90
15	18.055	118	6.16	56	56.72	33	59.80	27	11.821	117	32.87	52	54.862	264	47.86	38
25	17.937	109	6.72	56	56.39	32	60.07	24	11.704	109	33.39	59	54.598	262	48.24	15
Dez. 5	17.828	95	7.28	54	56.07	29	59.83	75	11.595	96	33.98	64	54.336	252	48.09	68
15	17.733	78	7.82	50	55.78	25	59.08	124	11.499	80	34.62	66	54.084	234	47.41	119
25	17.655	56	8.32	44	55.53	20	57.84	170	11.419	60	35.28	67	53.850	207	46.22	166
35	17.599		8.76		55.33		56.14		11.359		35.95		53.643		44.56	
Mittl. Ort	14.814		21.23		51.55		58.08		8.674		50.54		52.939		16.02	
sec δ, tg δ	1.010		−0.143		2.037		−1.775		1.000		−0.030		1.620		+1.275	
a, *a′*	+3.2		+17.9		+4.1		+17.9		+3.1		+18.1		+2.4		+18.2	
b, *b′*	−0.01		+ 0.45		−0.11		+ 0.45		0.00		+ 0.43		+0.08		+ 0.42	

Tag	848) 7 Lacertae				850) η Aquarii				852) 10 Lacertae				855) ζ Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1932	$22^h 28^m$		$+49° 55'$		$22^h 31^m$		$-0° 27'$		$22^h 36^m$		$+38° 41'$		$22^h 38^m$		$+10° 28'$	
Jan. 1	27.443	181	65.68	184	51.078	55	71.59	70	11.127	128	52.04	167	3.427	67	31.92	104
11	27.262	145	63.84	221	51.023	34	72.29	67	10.999	102	50.37	197	3.360	46	30.88	111
21	27.117	103	61.63	249	50.989	11	72.95	59	10.897	70	48.40	218	3.314	23	29.77	112
31	27.014	56	59.14	266	50.978	15	73.54	49	10.827	33	46.22	230	3.291	3	28.65	106
Feb. 10	26.958	4	56.48	273	50.993	45	74.03	33	10.794	7	43.92	233	3.294	32	27.59	97
20	26.954	53	53.75	267	51.038	74	74.36	15	10.801	51	41.59	225	3.326	64	26.62	80
März 1	27.007	112	51.08	251	51.112	107	74.51	6	10.852	98	39.34	207	3.390	98	25.82	58
11	27.119	171	48.57	224	51.219	140	74.45	32	10.950	146	37.27	180	3.488	133	25.24	32
21	27.290	229	46.33	187	51.359	175	74.13	58	11.096	193	35.47	144	3.621	170	24.92	2
31	27.519	281	44.46	142	51.534	208	73.55	86	11.289	238	34.03	103	3.791	204	24.90	31
Apr. 10	27.800	329	43.04	92	51.742	239	72.69	112	11.527	279	33.00	56	3.995	237	25.21	65
20	28.129	369	42.12	38	51.981	268	71.57	138	11.806	315	32.44	6	4.232	267	25.86	98
30	28.498	399	41.74	18	52.249	291	70.19	161	12.121	342	32.38	45	4.499	291	26.84	130
Mai 10	28.897	418	41.92	73	52.540	308	68.58	179	12.463	362	32.83	94	4.790	309	28.14	159
20	29.315	427	42.65	127	52.848	320	66.79	193	12.825	373	33.77	141	5.099	322	29.73	183
30	29.742	424	43.92	176	53.168	323	64.86	202	13.198	373	35.18	185	5.421	325	31.56	203
Juni 9	30.166	410	45.68	221	53.491	319	62.84	206	13.571	364	37.03	222	5.746	320	33.59	218
19	30.576	385	47.89	260	53.810	306	60.78	204	13.935	347	39.25	255	6.066	308	35.77	226
29	30.961	350	50.49	292	54.116	285	58.74	198	14.282	319	41.80	280	6.374	288	38.03	230
Juli 9	31.311	307	53.41	317	54.401	259	56.76	186	14.601	284	44.60	298	6.662	261	40.33	227
19	31.618	258	56.58	335	54.660	226	54.90	171	14.885	244	47.58	311	6.923	228	42.60	219
29	31.876	203	59.93	344	54.886	188	53.19	153	15.129	198	50.69	315	7.151	190	44.79	207
Aug. 8	32.079	145	63.37	347	55.074	147	51.66	131	15.327	150	53.84	314	7.341	149	46.86	191
18	32.224	87	66.84	343	55.221	104	50.35	109	15.477	99	56.98	306	7.490	107	48.77	172
28	32.311	28	70.27	332	55.325	62	49.26	86	15.576	49	60.04	292	7.597	64	50.49	151
Sept. 6	32.339	28	73.59	314	55.387	22	48.40	63	15.625	2	62.96	272	7.661	24	52.00	128
16	32.311	79	76.73	290	55.409	16	47.77	41	15.627	41	65.68	248	7.685	13	53.28	104
26	32.232	125	79.63	261	55.393	48	47.36	21	15.586	81	68.16	220	7.672	45	54.32	79
Okt. 6	32.107	164	82.24	225	55.345	75	47.15	2	15.505	114	70.36	187	7.627	73	55.11	56
16	31.943	196	84.49	186	55.270	94	47.13	15	15.391	140	72.23	150	7.554	93	55.67	32
26	31.747	220	86.35	141	55.176	107	47.28	28	15.251	160	73.73	110	7.461	107	55.99	9
Nov. 5	31.527	236	87.76	94	55.069	114	47.56	41	15.091	172	74.83	69	7.354	115	56.08	12
15	31.291	244	88.70	43	54.955	114	47.97	51	14.919	179	75.52	24	7.239	117	55.96	33
25	31.047	243	89.13	8	54.841	109	48.48	58	14.740	178	75.76	20	7.122	114	55.63	53
Dez. 5	30.804	236	89.05	61	54.732	99	49.06	65	14.562	171	75.56	64	7.008	106	55.10	71
15	30.568	221	88.44	111	54.633	86	49.71	68	14.391	159	74.92	106	6.902	95	54.39	86
25	30.347	197	87.33	157	54.547	68	50.39	70	14.232	141	73.86	145	6.807	78	53.53	98
35	30.150		85.76		54.479		51.09		14.091		72.41		6.729		52.55	
Mittl. Ort	29.176		56.55		51.757		66.95		12.412		45.04		4.190		32.95	
sec δ, tg δ	1.554		+1.189		1.000		−0.008		1.281		+0.801		1.017		+0.185	
a, *a'*	+2.5		+18.5		+3.1		+18.6		+2.7		+18.7		+3.0		+18.8	
b, *b'*	+0.07		+ 0.39		0.00		+ 0.38		+0.05		+ 0.36		+0.01		+ 0.35	

Tag	856) β Gruis AR.		Dekl.		857) η Pegasi AR.		Dekl.	
1932	22h 38m		−47° 14′		22h 39m		+29° 51′	
Jan. 1	36.436	118	44.60	122	47.660	102	58.83	151
11	36.318	83	43.38	158	47.558	79	57.32	173
21	36.235	44	41.80	191	47.479	52	55.59	189
31	36.191	3	39.89	219	47.427	20	53.70	196
Feb. 10	36.188	41	37.70	242	47.407	14	51.74	195
20	36.229	85	35.28	261	47.421	53	49.79	185
März 1	36.314	132	32.67	274	47.474	94	47.94	165
11	36.446	178	29.93	282	47.568	136	46.29	138
21	36.624	224	27.11	285	47.704	178	44.91	105
31	36.848	269	24.26	282	47.882	218	43.86	65
Apr. 10	37.117	312	21.44	274	48.100	257	43.21	21
20	37.429	350	18.70	261	48.357	290	43.00	24
30	37.779	383	16.09	240	48.647	316	43.24	70
Mai 10	38.162	408	13.69	216	48.963	336	43.94	113
20	38.570	426	11.53	186	49.299	347	45.07	155
30	38.996	434	9.67	152	49.646	349	46.62	191
Juni 9	39.430	431	8.15	114	49.995	343	48.53	223
19	39.861	419	7.01	74	50.338	328	50.76	249
29	40.280	394	6.27	32	50.666	305	53.25	268
Juli 9	40.674	361	5.95	11	50.971	274	55.93	280
19	41.035	317	6.06	51	51.245	237	58.73	286
29	41.352	266	6.57	90	51.482	195	61.59	287
Aug. 8	41.618	209	7.47	125	51.677	151	64.46	281
18	41.827	148	8.72	154	51.828	104	67.27	270
28	41.975	86	10.26	176	51.932	59	69.97	253
Sept. 6	42.061	23	12.02	192	51.991	15	72.50	232
16	42.084	35	13.94	199	52.006	25	74.82	208
26	42.049	88	15.93	196	51.981	61	76.90	180
Okt. 6	41.961	133	17.89	185	51.920	91	78.70	149
16	41.828	169	19.74	167	51.829	115	80.19	116
26	41.659	194	21.41	140	51.714	132	81.35	81
Nov. 5	41.465	208	22.81	107	51.582	143	82.16	44
15	41.257	212	23.88	69	51.439	148	82.60	7
25	41.045	206	24.57	28	51.291	147	82.67	30
Dez. 5	40.839	192	24.85	14	51.144	141	82.37	67
15	40.647	169	24.71	56	51.003	129	81.70	102
25	40.478	140	24.15	98	50.874	114	80.68	133
35	40.338		23.17		50.760		79.35	
Mittl. Ort	36.817		27.76		48.715		54.00	
sec δ, tg δ	1.473		−1.081		1.153		+0.574	
a, a′	+3.6		+18.8		+2.8		+18.8	
b, b′	−0.07		+ 0.35		+0.04		+ 0.34	

Tag	859) λ Pegasi AR.		Dekl.		860) ε Gruis AR.		Dekl.	
1932	22h 43m		+23° 12′		22h 44m		−51° 40′	
Jan. 1	14.297	89	29.38	136	27.007	146	47.86	135
11	14.208	67	28.02	152	26.861	107	46.51	175
21	14.141	43	26.50	163	26.754	65	44.76	209
31	14.098	14	24.87	166	26.689	19	42.67	239
Feb. 10	14.084	18	23.21	163	26.670	28	40.28	264
20	14.102	53	21.58	151	26.698	77	37.64	282
März 1	14.155	91	20.07	130	26.775	128	34.82	295
11	14.246	130	18.77	104	26.903	179	31.87	303
21	14.376	169	17.73	71	27.082	230	28.84	303
31	14.545	208	17.02	34	27.312	280	25.81	298
Apr. 10	14.753	244	16.68	7	27.592	326	22.83	288
20	14.997	276	16.75	48	27.918	368	19.95	271
30	15.273	303	17.23	89	28.286	405	17.24	249
Mai 10	15.576	322	18.12	128	28.691	434	14.75	220
20	15.898	334	19.40	164	29.125	453	12.55	188
30	16.232	338	21.04	195	29.578	464	10.67	150
Juni 9	16.570	333	22.99	221	30.042	462	9.17	109
19	16.903	320	25.20	242	30.504	450	8.08	66
29	17.223	298	27.62	256	30.954	426	7.42	21
Juli 9	17.521	270	30.18	264	31.380	391	7.21	23
19	17.791	235	32.82	265	31.771	345	7.44	67
29	18.026	196	35.47	262	32.116	291	8.11	107
Aug. 8	18.222	153	38.09	252	32.407	230	9.18	142
18	18.375	110	40.61	239	32.637	164	10.60	174
28	18.485	66	43.00	221	32.801	96	12.34	196
Sept. 6	18.551	23	45.21	199	32.897	29	14.30	211
16	18.574	16	47.20	174	32.926	36	16.41	217
26	18.558	49	48.94	148	32.890	95	18.58	214
Okt. 6	18.509	78	50.42	119	32.795	146	20.72	201
16	18.431	101	51.61	90	32.649	187	22.73	180
26	18.330	117	52.51	58	32.462	216	24.53	150
Nov. 5	18.213	128	53.09	26	32.246	235	26.03	114
15	18.085	132	53.35	6	32.011	241	27.17	73
25	17.953	131	53.29	37	31.770	237	27.90	28
Dez. 5	17.822	124	52.92	68	31.533	223	28.18	19
15	17.698	114	52.24	96	31.310	200	27.99	65
25	17.584	100	51.28	121	31.110	170	27.34	109
35	17.484		50.07		30.940		26.25	
Mittl. Ort	15.212		26.28		27.329		30.22	
sec δ, tg δ	1.088		+0.429		1.613		−1.265	
a, a′	+2.9		+18.9		+3.6		+19.0	
b, b′	+0.03		+ 0.33		−0.08		+ 0.32	

Scheinbare Sternörter 1932

Tag	863) ι Cephei AR.		863) ι Cephei Dekl.		864) λ Aquarii AR.		864) λ Aquarii Dekl.		865) ρ Indi AR.		865) ρ Indi Dekl.		866) δ Aquarii AR.		866) δ Aquarii Dekl.	
1932	22h 47m		+65° 50′		22h 49m		−7° 56′		22h 49m		−70° 25′		22h 51m		−16° 10′	
Jan. 1	12.50	38	46.18	160	3.557	64	37.33	42	56.94	37	95.47	201	2.146	68	67.21	11
11	12.12	33	44.58	209	3.493	45	37.75	31	56.57	30	93.46	246	2.078	48	67.32	6
21	11.79	27	42.49	248	3.448	23	38.06	18	56.27	21	91.00	285	2.030	25	67.26	25
31	11.52	19	40.01	279	3.425	1	38.24	3	56.06	12	88.15	316	2.005	0	67.01	44
Feb. 10	11.33	10	37.22	297	3.426	29	38.27	14	55.94	3	84.99	340	2.005	28	66.57	64
20	11.23	1	34.25	303	3.455	60	38.13	34	55.91	7	81.59	355	2.033	60	65.93	85
März 1	11.22	9	31.22	296	3.515	91	37.79	55	55.98	16	78.04	362	2.093	92	65.08	105
11	11.31	18	28.26	276	3.606	125	37.24	78	56.14	26	74.42	362	2.185	126	64.03	127
21	11.49	28	25.50	247	3.731	160	36.46	102	56.40	36	70.80	354	2.311	162	62.76	147
31	11.77	37	23.03	207	3.891	195	35.44	124	56.76	44	67.26	339	2.473	197	61.29	166
Apr. 10	12.14	44	20.96	158	4.086	228	34.20	146	57.20	52	63.87	316	2.670	231	59.63	181
20	12.58	51	19.38	105	4.314	259	32.74	166	57.72	60	60.71	288	2.901	263	57.82	194
30	13.09	56	18.33	47	4.573	285	31.08	182	58.32	66	57.83	254	3.164	290	55.88	202
Mai 10	13.65	59	17.86	12	4.858	305	29.26	193	58.98	71	55.29	213	3.454	311	53.86	207
20	14.24	61	17.98	70	5.163	320	27.33	201	59.69	74	53.16	168	3.765	326	51.79	206
30	14.85	61	18.68	128	5.483	327	25.32	203	60.43	77	51.48	120	4.091	334	49.73	199
Juni 9	15.46	59	19.96	180	5.810	325	23.29	199	61.20	76	50.28	69	4.425	334	47.74	189
19	16.05	55	21.76	228	6.135	316	21.30	191	61.96	74	49.59	17	4.759	325	45.85	173
29	16.60	51	24.04	271	6.451	298	19.39	179	62.70	70	49.42	36	5.084	307	44.12	153
Juli 9	17.11	45	26.75	306	6.749	274	17.60	161	63.40	65	49.78	86	5.391	283	42.59	129
19	17.56	37	29.81	335	7.023	243	15.99	141	64.05	57	50.64	133	5.674	252	41.30	103
29	17.93	30	33.16	356	7.266	206	14.58	118	64.62	48	51.97	177	5.926	215	40.27	76
Aug. 8	18.23	22	36.72	369	7.472	166	13.40	93	65.10	37	53.74	214	6.141	173	39.51	47
18	18.45	13	40.41	375	7.638	124	12.47	68	65.47	26	55.88	242	6.314	130	39.04	19
28	18.58	4	44.16	373	7.762	80	11.79	43	65.73	14	58.30	263	6.444	85	38.85	6
Sept. 6	18.62	4	47.89	363	7.842	40	11.36	20	65.87	2	60.93	272	6.529	42	38.91	29
16	18.58	12	51.52	347	7.882	1	11.16	1	65.89	11	63.65	272	6.571	2	39.20	48
26	18.46	19	54.99	322	7.883	33	11.17	20	65.78	22	66.37	261	6.573	34	39.68	64
Okt. 6	18.27	25	58.21	291	7.850	62	11.37	35	65.56	32	68.98	238	6.539	64	40.32	74
16	18.02	32	61.12	253	7.788	84	11.72	46	65.24	41	71.36	204	6.475	88	41.06	80
26	17.70	37	63.65	210	7.704	100	12.18	54	64.83	47	73.40	162	6.387	105	41.86	82
Nov. 5	17.33	40	65.75	160	7.604	109	12.72	59	64.36	51	75.02	114	6.282	115	42.68	78
15	16.93	43	67.35	106	7.495	112	13.31	62	63.85	54	76.16	59	6.167	118	43.46	72
25	16.50	44	68.41	48	7.383	110	13.93	61	63.31	53	76.75	1	6.049	116	44.18	62
Dez. 5	16.06	44	68.89	11	7.273	102	14.54	58	62.78	52	76.76	58	5.933	109	44.80	51
15	15.62	43	68.78	69	7.171	91	15.12	53	62.26	48	76.18	115	5.824	96	45.31	36
25	15.19	40	68.09	127	7.080	76	15.65	46	61.78	41	75.03	170	5.728	80	45.67	21
35	14.79		66.82		7.004		16.11		61.37		73.33		5.648		45.88	
Mittl. Ort	15.23		32.76		4.081		30.94		57.20		75.37		2.595		58.35	
sec δ, tg δ	2.444		+2.230		1.010		−0.140		2.987		−2.814		1.041		−0.290	
a, a'	+2.1		+19.0		+3.1		+19.1		+4.2		+19.1		+3.2		+19.1	
b, b'	+0.14		+0.31		−0.01		+0.30		−0.18		+0.30		−0.02		+0.30	

Tag	867) α Pisc. austr. AR.		Dekl.		869) ο Andromedae AR.		Dekl.		870) β Pegasi AR.		Dekl.		871) α Pegasi AR.		Dekl.	
1932	22ʰ 53ᵐ		−29° 58′		22ʰ 58ᵐ		+41° 57′		23ʰ 0ᵐ		+27° 42′		23ʰ 1ᵐ		+14° 50′	
Jan. 1	53.450	84	71.60	41	46.053	154	45.36	149	27.597	106	54.10	132	21.615	84	21.72	107
11	53.366	61	71.19	70	45.899	131	43.87	183	27.491	88	52.78	153	21.531	67	20.65	117
21	53.305	35	70.49	97	45.768	102	42.04	210	27.403	64	51.25	170	21.464	46	19.48	122
31	53.270	6	69.52	122	45.666	66	39.94	228	27.339	37	49.55	178	21.418	21	18.26	121
Feb. 10	53.264	25	68.30	146	45.600	25	37.66	236	27.302	4	47.77	177	21.397	7	17.05	115
20	53.289	59	66.84	168	45.575	20	35.30	233	27.298	32	46.00	170	21.404	38	15.90	102
März 1	53.348	95	65.16	187	45.595	70	32.97	221	27.330	72	44.30	154	21.442	73	14.88	83
11	53.443	133	63.29	204	45.665	121	30.76	199	27.402	113	42.76	129	21.515	110	14.05	58
21	53.576	171	61.25	219	45.786	173	28.77	166	27.515	156	41.47	98	21.625	149	13.47	28
31	53.747	210	59.06	228	45.959	223	27.11	128	27.671	197	40.49	61	21.774	186	13.19	5
Apr. 10	53.957	246	56.78	234	46.182	270	25.83	84	27.868	238	39.88	21	21.960	222	13.24	40
20	54.203	280	54.44	236	46.452	310	24.99	35	28.106	273	39.67	22	22.182	256	13.64	76
30	54.483	310	52.08	232	46.762	344	24.64	16	28.379	302	39.89	65	22.438	284	14.40	109
Mai 10	54.793	334	49.76	223	47.106	369	24.80	67	28.681	326	40.54	107	22.722	306	15.49	141
20	55.127	351	47.53	209	47.475	385	25.47	115	29.007	341	41.61	147	23.028	321	16.90	171
30	55.478	361	45.44	191	47.860	390	26.62	160	29.348	348	43.08	181	23.349	329	18.61	195
Juni 9	55.839	361	43.53	166	48.250	385	28.22	202	29.696	345	44.89	212	23.678	328	20.56	214
19	56.200	352	41.87	138	48.635	370	30.24	238	30.041	334	47.01	237	24.006	319	22.70	228
29	56.552	335	40.49	107	49.005	347	32.62	268	30.375	315	49.38	257	24.325	302	24.98	236
Juli 9	56.887	310	39.42	74	49.352	314	35.30	292	30.690	288	51.95	269	24.627	277	27.34	238
19	57.197	277	38.68	39	49.666	275	38.22	307	30.978	254	54.64	275	24.904	246	29.72	235
29	57.474	236	38.29	5	49.941	230	41.29	318	31.232	215	57.39	276	25.150	211	32.07	226
Aug. 8	57.710	191	38.24	29	50.171	181	44.47	320	31.447	173	60.15	271	25.361	171	34.33	213
18	57.901	144	38.53	59	50.352	131	47.67	317	31.620	129	62.86	260	25.532	129	36.46	197
28	58.045	95	39.12	86	50.483	80	50.84	307	31.749	85	65.46	245	25.661	88	38.43	178
Sept. 6	58.140	46	39.98	108	50.563	30	53.91	291	31.834	42	67.91	225	25.749	47	40.21	155
16	58.186	1	41.06	124	50.593	16	56.82	270	31.876	1	70.16	203	25.796	9	41.76	132
26	58.187	41	42.30	133	50.577	58	59.52	244	31.877	35	72.19	177	25.805	25	43.08	107
Okt. 6	58.146	76	43.63	136	50.519	95	61.96	214	31.842	66	73.96	148	25.780	54	44.15	82
16	58.070	103	44.99	131	50.424	126	64.10	179	31.776	92	75.44	117	25.726	78	44.97	57
26	57.967	124	46.30	121	50.298	150	65.89	140	31.684	112	76.61	85	25.648	95	45.54	32
Nov. 5	57.843	136	47.51	105	50.148	168	67.29	98	31.572	125	77.46	51	25.553	107	45.86	7
15	57.707	141	48.56	85	49.980	180	68.27	54	31.447	133	77.97	16	25.446	114	45.93	17
25	57.566	139	49.41	60	49.800	186	68.81	8	31.314	137	78.13	18	25.332	115	45.76	40
Dez. 5	57.427	131	50.01	33	49.614	185	68.89	38	31.177	134	77.95	53	25.217	111	45.36	61
15	57.296	117	50.34	5	49.429	178	68.51	82	31.043	127	77.42	86	25.106	104	44.75	81
25	57.179	99	50.39	24	49.251	165	67.69	125	30.916	115	76.56	114	25.002	93	43.94	98
35	57.080		50.15		49.086		66.44		30.801		75.42		24.909		42.96	
Mittl. Ort	53.792		58.88		47.289		36.12		28.494		48.75		22.310		20.34	
sec δ, tg δ	1.154		−0.577		1.345		+0.899		1.130		+0.525		1.035		+0.265	
a, a′	+3.3		+19.2		+2.8		+19.3		+2.9		+19.4		+3.0		+19.4	
b, b′	−0.04		+ 0.28		+0.06		+ 0.26		+0.03		+ 0.26		+0.02		+ 0.25	

Tag	872) ϑ Gruis AR.		872) ϑ Gruis Dekl.		874) π Cephei AR.		874) π Cephei Dekl.		873) c^2 Aquarii AR.		873) c^2 Aquarii Dekl.		875) Br 3077 AR.		875) Br 3077 Dekl.	
1932	23h 3m		−43° 52′		23h 5m		+75° 0′		23h 5m		−21° 32′		23h 9m		+56° 47′	
Jan. 1	3.067	129	93.84	90	39.65	70	86.94	125	49.071	82	40.79	5	58.286	258	46.76	137
11	2.938	101	92.94	129	38.95	63	85.69	180	48.989	63	40.74	27	58.028	228	45.39	184
21	2.837	69	91.65	163	38.32	53	83.89	227	48.926	40	40.47	51	57.800	189	43.55	221
31	2.768	34	90.02	195	37.79	41	81.62	265	48.886	15	39.96	74	57.611	139	41.34	251
Feb. 10	2.734	5	88.07	222	37.38	28	78.97	293	48.871	12	39.22	96	57.472	81	38.83	270
20	2.739	46	85.85	244	37.10	13	76.04	307	48.883	44	38.26	118	57.391	16	36.13	277
März 1	2.785	89	83.41	263	36.97	3	72.97	309	48.927	77	37.08	140	57.375	53	33.36	272
11	2.874	134	80.78	275	37.00	19	69.88	298	49.004	112	35.68	160	57.428	126	30.64	255
21	3.008	179	78.03	283	37.19	34	66.90	275	49.116	150	34.08	179	57.554	198	28.09	229
31	3.187	224	75.20	286	37.53	49	64.15	241	49.266	187	32.29	195	57.752	268	25.80	192
Apr. 10	3.411	268	72.34	283	38.02	62	61.74	198	49.453	223	30.34	208	58.020	332	23.88	148
20	3.679	309	69.51	275	38.64	72	59.76	147	49.676	258	28.26	217	58.352	388	22.40	97
30	3.988	345	66.76	259	39.36	81	58.29	92	49.934	287	26.09	221	58.740	434	21.43	44
Mai 10	4.333	374	64.17	239	40.17	87	57.37	34	50.221	311	23.88	221	59.174	467	20.99	12
20	4.707	396	61.78	213	41.04	90	57.03	26	50.532	330	21.67	215	59.641	489	21.11	68
30	5.103	409	59.65	182	41.94	90	57.29	84	50.862	340	19.52	204	60.130	497	21.79	121
Juni 9	5.512	412	57.83	147	42.84	89	58.13	141	51.202	343	17.48	189	60.627	490	23.00	172
19	5.924	405	56.36	109	43.73	84	59.54	193	51.545	336	15.59	168	61.117	473	24.72	217
29	6.329	387	55.27	67	44.57	78	61.47	241	51.881	322	13.91	143	61.590	443	26.89	258
Juli 9	6.716	360	54.60	25	45.35	70	63.88	282	52.203	299	12.48	115	62.033	402	29.47	292
19	7.076	323	54.35	18	46.05	59	66.70	317	52.502	269	11.33	85	62.435	353	32.39	318
29	7.399	278	54.53	58	46.64	48	69.87	346	52.771	232	10.48	54	62.788	297	35.57	339
Aug. 8	7.677	228	55.11	96	47.12	36	73.33	366	53.003	191	9.94	22	63.085	236	38.96	352
18	7.905	172	56.07	130	47.48	24	76.99	379	53.194	148	9.72	8	63.321	172	42.48	357
28	8.077	113	57.37	157	47.72	10	80.78	384	53.342	103	9.80	36	63.493	107	46.05	355
Sept. 6*)	8.190	56	58.94	178	47.82	2	84.62	382	53.445	58	10.16	60	63.600	43	49.60	346
16	8.246	0	60.72	191	47.80	15	88.44	372	53.503	15	10.76	79	63.643	18	53.06	331
26	8.246	52	62.63	195	47.65	27	92.16	354	53.518	23	11.55	94	63.625	76	56.37	309
Okt. 6	8.194	97	64.58	191	47.38	38	95.70	328	53.495	55	12.49	103	63.549	127	59.46	280
16	8.097	133	66.49	177	47.00	48	98.98	295	53.440	83	13.52	106	63.422	173	62.26	245
26	7.964	162	68.26	156	46.52	57	101.93	254	53.357	102	14.58	104	63.249	212	64.71	205
Nov. 5	7.802	181	69.82	129	45.95	65	104.47	207	53.255	115	15.62	96	63.037	242	66.76	159
15	7.621	189	71.11	95	45.30	70	106.54	155	53.140	122	16.58	84	62.795	266	68.35	110
25	7.432	190	72.06	57	44.60	75	108.09	97	53.018	122	17.42	69	62.529	280	69.45	57
Dez. 5	7.242	183	72.63	17	43.85	76	109.06	36	52.896	116	18.11	51	62.249	286	70.02	1
15	7.059	168	72.80	25	43.09	75	109.42	27	52.780	107	18.62	30	61.963	282	70.03	53
25	6.891	147	72.55	66	42.34	72	109.15	88	52.673	93	18.92	8	61.681	269	69.50	106
35	6.744		71.89		41.62		108.27		52.580		19.00		61.412		68.44	
Mittl. Ort	3.260		77.87		43.76		70.99		49.393		30.70		60.041		33.38	
sec δ, tg δ	1.388		−0.962		3.869		+3.737		1.075		−0.395		1.826		+1.528	
a, *a′*	+3.4		+19.4		+1.9		+19.5		+3.2		+19.5		+2.6		+19.6	
b, *b′*	−0.06		+ 0.25		+0.24		+ 0.23		−0.03		+ 0.23		+0.10		+ 0.22	

*) Bei Stern 874), 873) und 875) lies Sept. 7

Tag	877) γ Tucanae AR.		877) γ Tucanae Dekl.		879) γ Sculptoris AR.		879) γ Sculptoris Dekl.		880) τ Pegasi AR.		880) τ Pegasi Dekl.	
1932	$23^h\ 13^m$		$-58°\ 36'$		$23^h\ 15^m$		$-32°\ 53'$		$23^h\ 17^m$		$+23°\ 21'$	
Jan. 1	$28^s.260$	232	$50''.50$	136	$9^s.188$	106	$83''.16$	41	$15^s.380$	104	$68''.78$	114
11	28.028	192	49.14	182	9.082	85	82.75	74	15.276	89	67.64	133
21	27.836	146	47.32	224	8.997	61	82.01	105	15.187	70	66.31	146
31	27.690	96	45.08	259	8.936	33	80.96	134	15.117	46	64.85	153
Feb. 10	27.594	41	42.49	289	8.903	3	79.62	160	15.071	16	63.32	153
20	27.553	17	39.60	311	8.900	32	78.02	185	15.055	17	61.79	144
März 1	27.570	77	36.49	328	8.932	68	76.17	206	15.072	55	60.35	130
11	27.647	140	33.21	337	9.000	108	74.11	224	15.127	94	59.05	107
21	27.787	202	29.84	338	9.108	148	71.87	238	15.221	136	57.98	77
31	27.989	263	26.46	334	9.256	188	69.49	249	15.357	177	57.21	45
Apr. 10	28.252	323	23.12	323	9.444	229	67.00	255	15.534	218	56.76	7
20	28.575	378	19.89	305	9.673	266	64.45	255	15.752	254	56.69	33
30	28.953	426	16.84	280	9.939	300	61.90	251	16.006	286	57.02	72
Mai 10	29.379	467	14.04	250	10.239	329	59.39	240	16.292	312	57.74	110
20	29.846	499	11.54	213	10.568	349	56.99	225	16.604	330	58.84	146
30	30.345	518	9.41	172	10.917	364	54.74	204	16.934	339	60.30	178
Juni 9	30.863	526	7.69	127	11.281	368	52.70	178	17.273	340	62.08	205
19	31.389	521	6.42	80	11.649	363	50.92	147	17.613	333	64.13	228
29	31.910	501	5.62	30	12.012	350	49.45	113	17.946	317	66.41	243
Juli 9	32.411	469	5.32	20	12.362	328	48.32	77	18.263	294	68.84	254
19	32.880	424	5.52	68	12.690	297	47.55	40	18.557	263	71.38	258
29	33.304	367	6.20	114	12.987	259	47.15	2	18.820	228	73.96	257
Aug. 8	33.671	302	7.34	155	13.246	216	47.13	35	19.048	189	76.53	250
18	33.973	229	8.89	191	13.462	168	47.48	69	19.237	146	79.03	239
28	34.202	151	10.80	219	13.630	118	48.17	99	19.383	104	81.42	223
Sept. 7	34.353	72	12.99	238	13.748	69	49.16	123	19.487	63	83.65	204
16	34.425	6	15.37	248	13.817	22	50.39	141	19.550	23	85.69	182
26	34.419	80	17.85	247	13.839	22	51.80	152	19.573	14	87.51	157
Okt. 6	34.339	146	20.32	236	13.817	61	53.32	156	19.559	44	89.08	131
16	34.193	203	22.68	215	13.756	93	54.88	152	19.515	71	90.39	103
26	33.990	248	24.83	185	13.663	117	56.40	142	19.444	92	91.42	73
Nov. 5	33.742	281	26.68	146	13.546	135	57.82	124	19.352	107	92.15	44
15	33.461	301	28.14	101	13.411	144	59.06	102	19.245	117	92.59	13
25	33.160	306	29.15	51	13.267	146	60.08	74	19.128	123	92.72	17
Dez. 5	32.854	301	29.66	1	13.121	143	60.82	44	19.005	123	92.55	47
15	32.553	283	29.65	54	12.978	133	61.26	12	18.882	120	92.08	75
25	32.270	256	29.11	105	12.845	118	61.38	21	18.762	111	91.33	100
35	32.014		28.06		12.727		61.17		18.651		90.33	
Mittl. Ort	28.245		31.89		9.367		70.05		16.106		63.92	
sec δ, tg δ	1.920		−1.639		1.191		−0.647		1.089		+0.432	
a, a'	+3.5		+19.6		+3.2		+19.7		+3.0		+19.7	
b, b'	−0.11		+ 0.20		−0.04		+ 0.19		+0.03		+ 0.19	

Tag	882) 4 Cassiopeiae AR.		Dekl.		884) κ Piscium AR.		Dekl.		885) 70 Pegasi AR.		Dekl.	
1932	$23^h\ 21^m$		+61° 54′		$23^h\ 23^m$		+0° 52′		$23^h\ 25^m$		+12° 23′	
Jan. 1	46.53	34	48.39	120	26.365	82	56.78	67	42.298	92	8.05	91
11	46.19	31	47.19	171	26.283	70	56.11	63	42.206	78	7.14	100
21	45.88	26	45.48	214	26.213	52	55.48	58	42.128	61	6.14	103
31	45.62	20	43.34	248	26.161	31	54.90	48	42.067	40	5.11	102
Feb. 10	45.42	14	40.86	272	26.130	7	54.42	34	42.027	15	4.09	96
20	45.28	6	38.14	285	26.123	22	54.08	17	42.012	15	3.13	84
März 1	45.22	2	35.29	284	26.145	54	53.91	3	42.027	49	2.29	66
11	45.24	10	32.45	273	26.199	89	53.94	27	42.076	85	1.63	43
21	45.34	19	29.72	250	26.288	125	54.21	52	42.161	124	1.20	16
31	45.53	27	27.22	217	26.413	162	54.73	79	42.285	163	1.04	15
Apr. 10	45.80	35	25.05	175	26.575	200	55.52	106	42.448	202	1.19	47
20	46.15	42	23.30	126	26.775	234	56.58	131	42.650	237	1.66	79
30	46.57	47	22.04	73	27.009	265	57.89	155	42.887	269	2.45	112
Mai 10	47.04	51	21.31	17	27.274	290	59.44	176	43.156	295	3.57	142
20	47.55	54	21.14	40	27.564	309	61.20	192	43.451	314	4.99	168
30	48.09	55	21.54	95	27.873	321	63.12	204	43.765	325	6.67	191
Juni 9	48.64	55	22.49	148	28.194	325	65.16	210	44.090	329	8.58	208
19	49.19	53	23.97	197	28.519	320	67.26	211	44.419	324	10.66	220
29	49.72	51	25.94	241	28.839	308	69.37	207	44.743	311	12.86	227
Juli 9	50.23	46	28.35	279	29.147	288	71.44	197	45.054	290	15.13	228
19	50.69	40	31.14	310	29.435	261	73.41	184	45.344	263	17.41	224
29	51.09	34	34.24	335	29.696	229	75.25	166	45.607	231	19.65	215
Aug. 8	51.43	28	37.59	352	29.925	192	76.91	145	45.838	193	21.80	201
18	51.71	20	41.11	363	30.117	153	78.36	123	46.031	154	23.81	185
28	51.91	13	44.74	365	30.270	113	79.59	99	46.185	113	25.66	165
Sept. 7	52.04	6	48.39	360	30.383	72	80.58	74	46.298	73	27.31	143
16	52.10	2	51.99	348	30.455	34	81.32	51	46.371	35	28.74	120
26	52.08	8	55.47	329	30.489	0	81.83	29	46.406	0	29.94	96
Okt. 6	52.00	14	58.76	304	30.489	30	82.12	9	46.406	30	30.90	73
16	51.86	20	61.80	271	30.459	56	82.21	9	46.376	55	31.63	50
26	51.66	24	64.51	232	30.403	75	82.12	25	46.321	75	32.13	27
Nov. 5	51.42	29	66.83	187	30.328	89	81.87	37	46.246	91	32.40	4
15	51.13	32	68.70	138	30.239	98	81.50	48	46.155	101	32.44	16
25	50.81	34	70.08	84	30.141	102	81.02	57	46.054	106	32.28	36
Dez. 5	50.47	35	70.92	27	30.039	102	80.45	62	45.948	107	31.92	54
15	50.12	36	71.19	30	29.937	98	79.83	66	45.841	104	31.38	70
25	49.76	35	70.89	86	29.839	90	79.17	67	45.737	99	30.68	84
35	49.41		70.03		29.749		78.50		45.638		29.84	
Mittl. Ort	48.50		33.28		26.780		59.12		42.826		6.40	
sec δ, tg δ	2.124		+1.874		1.000		+0.015		1.024		+0.220	
a, *a′*	+2.7		+19.8		+3.1		+19.8		+3.0		+19.8	
b, *b′*	+0.12		+ 0.17		0.00		+ 0.16		+0.01		+ 0.15	

Tag	891) ι Andromedae AR.		891) ι Andromedae Dekl.		892) ι Piscium AR.		892) ι Piscium Dekl.		893) γ Cephei AR.		893) γ Cephei Dekl.	
1932	23h 34m		+42° 53′		23h 36m		+5° 15′		23h 36m		+77° 14′	
Jan. 1	46.716	173	40.49	114	26.706	89	26.54	76	28.35	87	88.29	78
11	46.543	158	39.35	152	26.617	77	25.78	76	27.48	81	87.51	137
21	46.385	136	37.83	183	26.540	63	25.02	74	26.67	72	86.14	191
31	46.249	106	36.00	206	26.477	43	24.28	68	25.95	60	84.23	236
Feb. 10	46.143	69	33.94	221	26.434	20	23.60	57	25.35	45	81.87	271
20	46.074	25	31.73	226	26.414	8	23.03	43	24.90	29	79.16	294
März 1	46.049	23	29.47	220	26.422	40	22.60	24	24.61	11	76.22	306
11	46.072	76	27.27	206	26.462	76	22.36	1	24.50	9	73.16	304
21	46.148	131	25.21	181	26.538	113	22.35	25	24.59	27	70.12	289
31	46.279	185	23.40	148	26.651	151	22.60	53	24.86	45	67.23	264
Apr. 10	46.464	237	21.92	108	26.802	190	23.13	81	25.31	61	64.59	227
20	46.701	284	20.84	64	26.992	226	23.94	110	25.92	76	62.32	183
30	46.985	326	20.20	17	27.218	259	25.04	136	26.68	87	60.49	132
Mai 10	47.311	358	20.03	32	27.477	285	26.40	160	27.55	97	59.17	77
20	47.669	382	20.35	80	27.762	307	28.00	181	28.52	102	58.40	19
30	48.051	396	21.15	127	28.069	321	29.81	197	29.54	105	58.21	39
Juni 9	48.447	399	22.42	169	28.390	326	31.78	208	30.59	105	58.60	97
19	48.846	392	24.11	208	28.716	323	33.86	213	31.64	102	59.57	151
29	49.238	375	26.19	241	29.039	313	35.99	213	32.66	97	61.08	202
Juli 9	49.613	348	28.60	268	29.352	294	38.12	209	33.63	89	63.10	248
19	49.961	315	31.28	289	29.646	269	40.21	199	34.52	79	65.58	289
29	50.276	274	34.17	304	29.915	239	42.20	184	35.31	67	68.47	322
Aug. 8	50.550	230	37.21	311	30.154	203	44.04	167	35.98	55	71.69	350
18	50.780	182	40.32	313	30.357	165	45.71	146	36.53	41	75.19	369
28	50.962	132	43.45	308	30.522	125	47.17	124	36.94	26	78.88	381
Sept. 7	51.094	83	46.53	298	30.647	85	48.41	100	37.20	12	82.69	386
16	51.177	36	49.51	281	30.732	48	49.41	77	37.32	3	86.55	383
26	51.213	8	52.32	260	30.780	13	50.18	54	37.29	17	90.38	372
Okt. 6	51.205	49	54.92	235	30.793	18	50.72	32	37.12	32	94.10	353
16	51.156	84	57.27	204	30.775	44	51.04	12	36.80	44	97.63	326
26	51.072	114	59.31	169	30.731	65	51.16	6	36.36	56	100.89	291
Nov. 5	50.958	139	61.00	130	30.666	81	51.10	22	35.80	67	103.80	249
15	50.819	159	62.30	88	30.585	92	50.88	37	35.13	76	106.29	200
25	50.660	173	63.18	45	30.493	98	50.51	49	34.37	83	108.29	145
Dez. 5	50.487	181	63.63	0	30.395	101	50.02	59	33.54	87	109.74	85
15	50.306	182	63.63	45	30.294	100	49.43	68	32.67	90	110.59	24
25	50.124	178	63.18	89	30.194	94	48.75	73	31.77	88	110.83	40
35	49.946		62.29		30.100		48.02		30.89		110.43	
Mittl. Ort	47.721		28.94		27.092		26.88		32.46		70.11	
sec δ, tg δ	1.365		+0.929		1.004		+0.092		4.532		+4.420	
a, a'	+2.9		+19.9		+3.1		+19.9		+2.5		+19.9	
b, b'	+0.06		+ 0.11		+0.01		+ 0.10		+0.29		+ 0.10	

Scheinbare Sternörter 1932

Tag	894) ω^2 Aquarii AR.		Dekl.		895) 41 H. Cephei AR.		Dekl.		896) Lac. δ Sculptoris AR.		Dekl.	
1932	23h 39m		−14° 54′		23h 44m		+67° 25′		23h 45m		−28° 29′	
Jan. 1	11.665	93	82.80	27	36.61	46	61.52	84	23.179	114	94.46	9
11	11.572	81	83.07	8	36.15	42	60.68	139	23.065	101	94.37	40
21	11.491	64	83.15	13	35.73	37	59.29	189	22.964	82	93.97	72
31	11.427	44	83.02	34	35.36	32	57.40	231	22.882	60	93.25	101
Feb. 10	11.383	21	82.68	55	35.04	24	55.09	262	22.822	34	92.24	130
20	11.362	8	82.13	78	34.80	15	52.47	283	22.788	4	90.94	156
März 1	11.370	38	81.35	102	34.65	4	49.64	291	22.784	30	89.38	181
11	11.408	74	80.33	124	34.61	6	46.73	287	22.814	68	87.57	203
21	11.482	111	79.09	146	34.67	16	43.86	272	22.882	108	85.54	222
31	11.593	150	77.63	167	34.83	27	41.14	245	22.990	149	83.32	237
Apr. 10	11.743	188	75.96	185	35.10	37	38.69	208	23.139	191	80.95	248
20	11.931	224	74.11	201	35.47	45	36.61	164	23.330	230	78.47	254
30	12.155	258	72.10	213	35.92	53	34.97	114	23.560	267	75.93	256
Mai 10	12.413	287	69.97	219	36.45	59	33.83	60	23.827	299	73.37	251
20	12.700	309	67.78	221	37.04	63	33.23	3	24.126	325	70.86	241
30	13.009	325	65.57	218	37.67	66	33.20	53	24.451	342	68.45	226
Juni 9	13.334	332	63.39	209	38.33	65	33.73	109	24.793	353	66.19	204
19	13.666	332	61.30	195	38.98	65	34.82	161	25.146	354	64.15	178
29	13.998	322	59.35	177	39.63	62	36.43	209	25.500	346	62.37	148
Juli 9	14.320	305	57.58	153	40.25	57	38.52	252	25.846	330	60.89	113
19	14.625	280	56.05	127	40.82	52	41.04	289	26.176	304	59.76	77
29	14.905	249	54.78	98	41.34	45	43.93	320	26.480	273	58.99	39
Aug. 8	15.154	214	53.80	68	41.79	37	47.13	343	26.753	235	58.60	1
18	15.368	174	53.12	37	42.16	29	50.56	360	26.988	192	58.59	34
28	15.542	132	52.75	7	42.45	21	54.16	369	27.180	147	58.93	68
Sept. 7	15.674	91	52.68	19	42.66	12	57.85	372	27.327	101	59.61	97
16*)	15.765	50	52.87	43	42.78	4	61.57	366	27.428	56	60.58	120
26	15.815	13	53.30	63	42.82	5	65.23	352	27.484	13	61.78	138
Okt. 6	15.828	21	53.93	78	42.77	13	68.75	333	27.497	25	63.16	147
16	15.807	49	54.71	89	42.64	20	72.08	304	27.472	58	64.63	151
26	15.758	72	55.60	94	42.44	27	75.12	270	27.414	86	66.14	146
Nov. 5	15.686	89	56.54	93	42.17	33	77.82	228	27.328	106	67.60	135
15	15.597	100	57.47	89	41.84	38	80.10	181	27.222	121	68.95	119
25	15.497	107	58.36	80	41.46	41	81.91	127	27.101	128	70.14	96
Dez. 5	15.390	108	59.16	68	41.05	44	83.18	71	26.973	132	71.10	70
15	15.282	106	59.84	55	40.61	46	83.89	11	26.841	130	71.80	41
25	15.176	100	60.39	38	40.15	46	84.00	47	26.711	122	72.21	10
35	15.076		60.77		39.69		83.53		26.589		72.31	
Mittl. Ort	11.840		75.71		38.76		44.13		23.191		83.32	
sec δ, tg δ	1.035		−0.266		2.605		+2.406		1.138		−0.544	
a, a'	+3.1		+20.0		+2.9		+20.0		+3.1		+20.0	
b, b'	−0.02		+ 0.09		+0.16		+ 0.07		−0.04		+ 0.06	

*) Bei Stern 895) und 896) lies Sept. 17

Tag	898) φ Pegasi AR.		898) φ Pegasi Dekl.		902) ω Piscium AR.		902) ω Piscium Dekl.		903) ε Tucanae AR.		903) ε Tucanae Dekl.	
1932	23h 49m		+18° 44′		23h 55m		+6° 29′		23h 56m		−65° 56′	
Jan. 1	1.062	108	37.77	91	48.792	96	13.42	73	24.37	39	98.98	112
11	0.954	98	36.86	105	48.696	88	12.69	75	23.98	35	97.86	166
21	0.856	84	35.81	116	48.608	76	11.94	73	23.63	30	96.20	215
31	0.772	65	34.65	121	48.532	60	11.21	69	23.33	25	94.05	258
Feb. 10	0.707	41	33.44	121	48.472	38	10.52	60	23.08	19	91.47	296
20	0.666	11	32.23	113	48.434	11	9.92	46	22.89	11	88.51	325
März 1	0.655	23	31.10	100	48.423	20	9.46	28	22.78	4	85.26	348
11	0.678	60	30.10	80	48.443	55	9.18	8	22.74	4	81.78	362
21	0.738	102	29.30	55	48.498	94	9.10	18	22.78	13	78.16	369
31	0.840	144	28.75	26	48.592	133	9.28	45	22.91	20	74.47	368
Apr. 10	0.984	186	28.49	7	48.725	173	9.73	73	23.11	29	70.79	359
20	1.170	225	28.56	42	48.898	211	10.46	102	23.40	36	67.20	344
30	1.395	260	28.98	77	49.109	246	11.48	129	23.76	43	63.76	321
Mai 10	1.655	291	29.75	111	49.355	276	12.77	153	24.19	50	60.55	290
20	1.946	313	30.86	143	49.631	300	14.30	175	24.69	55	57.65	253
30	2.259	329	32.29	171	49.931	316	16.05	193	25.24	59	55.12	212
Juni 9	2.588	336	34.00	194	50.247	325	17.98	205	25.83	62	53.00	164
19	2.924	335	35.94	214	50.572	326	20.03	212	26.45	63	51.36	113
29	3.259	324	38.08	226	50.898	318	22.15	215	27.08	62	50.23	60
Juli 9	3.583	307	40.34	235	51.216	303	24.30	211	27.70	60	49.63	5
19	3.890	282	42.69	237	51.519	280	26.41	203	28.30	56	49.58	49
29	4.172	251	45.06	234	51.799	252	28.44	190	28.86	51	50.07	101
Aug. 8	4.423	216	47.40	226	52.051	218	30.34	173	29.37	43	51.08	150
18	4.639	177	49.66	214	52.269	182	32.07	153	29.80	35	52.58	194
28	4.816	138	51.80	198	52.451	143	33.60	132	30.15	27	54.52	229
Sept. 7	4.954	98	53.78	179	52.594	105	34.92	109	30.42	17	56.81	256
17	5.052	59	55.57	158	52.699	67	36.01	86	30.59	7	59.37	273
26	5.111	24	57.15	136	52.766	32	36.87	62	30.66	3	62.10	280
Okt. 6	5.135	8	58.51	111	52.798	1	37.49	40	30.63	12	64.90	275
16	5.127	37	59.62	86	52.799	27	37.89	20	30.51	21	67.65	258
26	5.090	60	60.48	61	52.772	50	38.09	1	30.30	28	70.23	231
Nov. 5	5.030	79	61.09	37	52.722	69	38.10	16	30.02	34	72.54	194
15	4.951	94	61.46	11	52.653	82	37.94	30	29.68	39	74.48	148
25	4.857	104	61.57	14	52.571	93	37.64	44	29.29	41	75.96	97
Dez. 5	4.753	110	61.43	37	52.478	98	37.20	55	28.88	43	76.93	40
15	4.643	112	61.06	59	52.380	101	36.65	64	28.45	43	77.33	18
25	4.531	110	60.47	79	52.279	99	36.01	70	28.02	41	77.15	76
35	4.421		59.68		52.180		35.31		27.61		76.39	
Mittl. Ort	1.531		32.96		49.079		12.57		23.65		80.07	
sec δ, tg δ	1.056		+0.339		1.007		+0.114		2.454		−2.241	
a, a′	+3.1		+20.0		+3.1		+20.0		+3.1		+20.0	
b, b′	+0.02		+ 0.05		+0.01		+ 0.02		−0.15		+ 0.02	

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^m.52$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$0^h 58^m$	$+85° 53'$	in $0.^s01$	in $0.''01$	$0^h 58^m$	$+85° 53'$	in $0.^s01$	in $0.''01$	$0^h 58^m$	$+85° 53'$	in $0.^s01$	in $0.''01$	$0^h 58^m$	$+85° 53'$	in $0.^s01$	in $0.''01$
1	$60.^s07$	$58.''69$	−11	−4	$51.^s13$	$58.''35$	+6	−7	$44.^s55$	$52.''91$	+11	0	$41.^s88$	$43.''97$	+3	+12
2	59.78	58.78	−7	−8	50.86	58.24	+10	−3	44.38	52.66	+12	+5	41.89	43.66	−2	+11
3	59.50	58.86	−3	−9	50.59	58.12	+12	+2	44.22	52.40	+9	+9	41.90	43.35	−6	+8
4	59.21	58.94	+3	−8	50.32	58.00	+11	+6	44.06	52.14	+5	+11	41.92	43.04	−9	+5
5	58.91	59.01	+8	−6	50.06	57.87	+8	+10	43.91	51.88	+1	+12	41.94	42.74	−10	0
6	58.61	59.07	+11	−1	49.80	57.73	+4	+11	43.77	51.61	−3	+10	*)41.97	42.44	−9	−4
7	58.31	59.12	+11	+4	49.54	57.59	−1	+11	43.63	51.34	−7	+7	42.00	42.14	−7	−8
8	58.02	59.17	+10	+8	49.28	57.44	−5	+9	43.49	51.07	−9	+3	42.04	41.84	−3	−10
9	57.73	59.21	+6	+11	49.03	57.28	−8	+5	43.36	50.79	−10	−2	42.09	41.54	0	−11
10	57.44	59.24	+2	+11	48.78	57.12	−10	+1	43.24	50.51	−9	−6	42.14	41.24	+4	−10
11	57.15	59.27	−2	+10	48.53	56.96	−10	−3	43.12	50.23	−6	−9	42.20	40.94	+7	−7
12	56.86	59.29	−6	+7	48.29	56.79	−8	−7	43.00	49.95	−2	−11	42.26	40.64	+9	−4
13	56.57	59.30	−9	+4	48.05	56.61	−5	−10	42.89	49.66	+2	−11	42.33	40.35	+9	+1
14	56.28	59.31	−10	−1	47.81	56.43	−1	−11	42.79	49.37	+5	−9	42.41	40.06	+6	+4
15	55.99	59.31	−9	−5	47.58	56.25	+3	−10	42.69	49.08	+8	−6	42.49	39.77	+2	+7
16	55.70	59.31	−7	−8	47.35	56.06	+7	−8	42.60	48.79	+9	−2	42.57	39.48	−3	+7
17	55.41	59.30	−3	−10	47.12	55.86	+9	−4	42.51	48.49	+8	+2	42.66	39.19	−7	+5
18	55.12	59.28	+1	−11	46.90	55.66	+9	0	42.43	48.19	+5	+6	42.76	38.91	−11	+2
19	54.83	59.25	+5	−10	46.68	55.46	+7	+4	42.35	47.89	+1	+8	42.86	38.63	−11	−2
20	54.54	59.22	+8	−7	46.47	55.25	+4	+7	42.28	47.59	−4	+7	42.96	38.35	−10	−6
21	54.25	59.18	+9	−2	46.26	55.03	−1	+9	42.22	47.29	−9	+5	43.07	38.07	−5	−9
22	53.96	59.14	+9	+2	46.05	54.81	−6	+7	42.16	46.99	−11	+1	43.19	37.79	0	−9
23	53.67	59.09	+6	+6	45.84	54.59	−10	+4	42.11	46.69	−11	−3	43.31	37.52	+5	−7
24	53.38	59.03	+2	+9	45.64	54.36	−11	0	42.06	46.39	−8	−7	43.44	37.25	+10	−3
25	53.09	58.97	−3	+9	45.45	54.13	−10	−4	42.02	46.09	−3	−8	43.57	36.98	+12	+2
26	52.80	58.90	−8	+6	45.26	53.89	−6	−7	41.98	45.79	+2	−8	43.71	36.71	+12	+7
27	52.52	58.82	−10	+3	45.08	53.65	−1	−8	41.95	45.49	+7	−5	43.85	36.45	+9	+11
28	52.24	58.74	−11	−2	44.90	53.41	+4	−7	41.93	45.19	+11	−1	44.00	36.19	+5	+12
29	51.96	58.65	−9	−6	44.72	53.16	+9	−4	41.91	44.89	+12	+4	44.15	35.94	0	+12
30	51.68	58.55	−4	−9	44.55	52.91	+11	0	41.89	44.59	+11	+8	44.31	35.69	−4	+10
31	51.40	58.45	+1	−9					41.88	44.28	+7	+11	44.47	35.44	−8	+7
32	51.13	58.35	+6	−7					41.88	43.97	+3	+12				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
$+85° 53' 30''$	13.958	+13.922	$+85° 53' 40''$	13.968	+13.932	$+85° 53' 50''$	13.977	+13.941
40	13.968	+13.932	50	13.977	+13.941	60	13.986	+13.951

$\alpha_{1932.0} = 0^h 59^m 5^s.93$ $\delta_{1932.0} = +85° 53' 36''.18$

*) Tag der doppelten unteren Kulmination: April 6

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^m.52$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		+	in			+	in			+	in			+	in	
	$0^h 58^m$	$85° 53'$	$0^s.01$	$0''.01$	$0^h 58^m$	$85° 53'$	$0^s.01$	$0''.01$	$0^h 59^m$	$85° 53'$	$0^s.01$	$0''.01$	$0^h 59^m$	$85° 53'$	$0^s.01$	$0''.01$
1	44.47	35.44	− 8	+ 7	51.52	29.80	− 6	− 8	0.62	29.04	+ 4	− 9	10.04	33.36	+ 8	+ 3
2	44.64	35.19	− 9	+ 2	51.80	29.69	− 2	− 9	0.94	29.10	+ 7	− 7	10.32	33.58	+ 5	+ 6
3	44.81	34.95	− 9	− 2	52.08	29.59	+ 2	−10	1.26	29.17	+ 9	− 3	10.60	33.80	+ 1	+ 8
4	44.99	34.71	− 8	− 6	52.37	29.50	+ 6	− 8	1.58	29.24	+ 9	+ 1	10.88	34.03	− 4	+ 8
5	45.17	34.48	− 4	− 9	52.66	29.41	+ 8	− 6	1.90	29.32	+ 7	+ 5	11.15	34.26	− 8	+ 5
6	45.35	34.25	− 1	−10	52.95	29.33	+ 9	− 2	2.22	29.40	+ 3	+ 7	11.42	34.50	−11	− 1
7	45.54	34.02	+ 3	−10	53.24	29.25	+ 8	+ 2	2.53	29.49	− 1	+ 8	11.69	34.74	−11	− 4
8	45.73	33.80	+ 7	− 8	53.53	29.18	+ 6	+ 6	2.84	29.58	− 6	+ 7	11.96	34.99	− 8	− 7
9	45.93	33.58	+ 9	− 5	53.82	29.11	+ 1	+ 7	3.15	29.68	−10	+ 3	12.22	35.24	− 4	−10
10	46.13	33.37	+ 9	− 1	54.12	29.05	− 4	+ 7	3.46	29.78	−11	− 1	12.48	35.49	+ 2	−10
11	46.34	33.16	+ 7	+ 3	54.42	28.99	− 8	+ 5	3.77	29.89	−10	− 6	12.74	35.75	+ 7	− 7
12	46.55	32.95	+ 4	+ 6	54.72	28.94	−11	+ 1	4.08	30.00	− 7	− 9	13.00	36.01	+10	− 3
13	46.77	32.75	− 1	+ 7	55.02	28.89	−12	− 4	4.39	30.12	− 2	−10	13.25	36.28	+12	+ 2
14	46.99	32.55	− 6	+ 6	55.32	28.85	− 9	− 8	4.70	30.25	+ 4	− 9	13.50	36.55	+10	+ 7
15	47.21	32.36	−10	+ 3	55.62	28.82	− 5	−10	5.01	30.38	+ 8	− 6	13.75	36.82	+ 7	+11
16	47.44	32.17	−12	− 1	55.93	28.79	0	−10	5.32	30.52	+11	− 1	13.99	37.10	+ 2	+12
17	47.67	31.99	−11	− 5	56.24	28.77	+ 6	− 8	5.63	30.66	+12	+ 4	14.23	37.38	− 2	+11
18	47.91	31.81	− 8	− 9	56.55	28.75	+10	− 3	5.93	30.80	+ 9	+ 9	14.47	37.67	− 6	+ 8
19	48.15	31.63	− 3	−10	56.86	28.74	+12	+ 2	6.23	30.95	+ 5	+11	14.71	37.96	− 9	+ 4
20	48.39	31.46	+ 3	− 9	57.17	28.73	+11	+ 7	6.53	31.11	+ 1	+12	14.94	38.25	− 9	0
21	48.63	31.29	+ 8	− 6	57.48	28.73	+ 8	+11	6.83	31.27	− 4	+10	15.17	38.54	− 9	− 4
22	48.88	31.13	+11	− 1	57.79	28.74	+ 4	+12	7.13	31.44	− 7	+ 7	15.40	38.84	− 6	− 7
23	49.13	30.97	+12	+ 5	58.10	28.75	− 1	+12	7.43	31.61	− 9	+ 3	15.62	39.14	− 3	− 9
24	49.38	30.82	+10	+ 9	58.41	28.77	− 5	+10	7.73	31.78	− 9	− 1	15.84	39.45	+ 1	−10
25	49.64	30.67	+ 7	+12	58.72	28.79	− 8	+ 6	8.03	31.96	− 8	− 5	16.06	39.76	+ 5	− 9
26	49.90	30.53	+ 2	+13	59.03	28.82	− 9	+ 1	8.32	32.15	− 5	− 8	16.27	40.07	+ 8	− 6
27	50.16	30.40	− 3	+11	59.34	28.85	− 9	− 3	8.61	32.34	− 1	−10	16.48	40.38	+ 9	− 3
28	50.43	30.27	− 6	+ 8	59.66	28.89	− 7	− 6	8.90	32.53	+ 3	− 9	16.68	40.70	+ 9	+ 1
29	50.70	30.14	− 9	+ 4	59.98	28.94	− 4	− 9	9.19	32.73	+ 6	− 8	16.88	41.02	+ 6	+ 5
30	50.97	30.02	− 9	0	60.30	28.99	0	−10	9.48	32.94	+ 9	− 5	17.08	41.35	+ 2	+ 7
31	51.24	29.91	− 8	− 4	60.62	29.04	+ 4	− 9	9.76	33.15	+ 9	− 1	17.28	41.68	− 2	+ 8
32	51.52	29.80	− 6	− 8					10.04	33.36	+ 8	+ 3	17.47	42.01	− 7	+ 6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 53′ 20″	13.949	+13.913	+85° 53′ 30″	13.958	+13.922	+85° 53′ 40″	13.968	+13.932
30	13.958	+13.922	40	13.968	+13.932	50	13.977	+13.941

$\alpha_{1932.0} = 0^h 59^m 5^s.93$ $\delta_{1932.0} = +85° 53' 36''.18$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^{m}.52$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$0^h 59^m$	$+85°53'$	in $0^s.01$ $0''.01$	$0^h 59^m$	$+85°53'$	in $0^s.01$ $0''.01$	$0^h 59^m$	$+85°54'$	in $0^s.01$ $0''.01$	$0^h 59^m$	$+85°54'$	in $0^s.01$ $0''.01$
1	17.47	42.01	−7 +6	21.42	52.94	−11 −4	21.25	5.16	+10 −3	16.89	14.70	+9 +10
2	17.66	42.34	−10 +3	21.48	53.32	−8 −8	21.17	5.52	+12 +3	16.68	14.96	+5 +13
3	17.84	42.68	−11 −2	21.54	53.70	−3 −9	21.08	5.88	+11 +8	16.47	15.21	+1 +13
4	18.02	43.02	−10 −6	21.60	54.09	+3 −8	20.99	6.24	+8 +11	16.26	15.46	−4 +11
5	18.20	43.36	−6 −9	21.65	54.48	+8 −5	20.90	6.59	+4 +13	16.04	15.70	−7 +8
6	18.38	43.70	0 −9	21.70 / 21.74	54.87 / 55.26	+11 0 / +12 +5	20.80	6.94	−1 +12	15.82	15.94	−9 +3
7	18.55	44.05	+5 −8	21.78	55.65	+10 +9	20.70	7.29	−6 +10	15.59	16.17	−9 −1
8	18.72	44.40	+9 −4	21.82	56.04	+6 +12	20.59	7.64	−8 +6	15.36	16.40	−7 −5
9	18.88	44.75	+11 +1	21.85	56.43	+2 +13	20.48	7.99	−9 +1	15.13	16.63	−4 −8
10	19.04	45.11	+11 +6	21.87	56.82	−3 +11	20.36	8.33	−8 −3	14.89	16.85	0 −9
11	19.20	45.47	+9 +10	21.89	57.21	−7 +8	20.24	8.67	−6 −6	14.65	17.06	+4 −8
12	19.35	45.83	+4 +12	21.91	57.60	−9 +4	20.11	9.01	3 −9	14.41	17.27	+7 −7
13	19.50	46.19	−1 +12	21.92	57.99	−9 −1	19.98	9.34	+1 −9	14.17	17.47	+9 −4
14	19.64	46.55	−5 +10	21.93	58.38	−8 −5	19.84	9.67	+5 −8	13.92	17.66	+9 0
15	19.78	46.91	−8 +6	21.93	58.77	−5 −8	19.70	9.99	+8 −6	13.67	17.85	+8 +3
16	19.91	47.28	−10 +2	21.93	59.15	−1 −9	19.55	10.31	+9 −3	13.42	18.04	+4 +6
17	20.04	47.65	−9 −2	21.92	59.53	+2 −9	19.40	10.63	+9 +1	13.17	18.22	0 +7
18	20.16	48.02	−7 −6	21.91	59.91	+6 −8	19.25	10.95	+6 +4	12.91	18.39	−5 +6
19	20.28	48.39	−4 −9	21.89	60.29	+8 −5	19.09	11.26	+3 +6	12.65	18.56	−9 +3
20	20.40	48.76	0 −10	21.87	60.67	+9 −2	18.93	11.57	−2 +7	12.39	18.72	−11 −1
21	20.51	49.13	+4 −9	21.84	61.05	+8 +2	18.77	11.88	−7 +5	12.12	18.87	−11 −5
22	20.62	49.51	+7 −7	21.81	61.43	+5 +5	18.60	12.18	−10 +2	11.85	19.02	−9 −9
23	20.73	49.89	+9 −4	21.77	61.81	+1 +6	18.43	12.48	−12 −2	11.58	19.16	−4 −11
24	20.83	50.27	+9 0	21.73	62.19	−4 +6	18.25	12.77	−11 −7	11.31	19.30	+1 −11
25	20.93	50.65	+7 +3	21.69	62.57	−8 +4	18.07	13.06	−7 −10	11.04	19.43	+7 −8
26	21.02	51.03	+4 +6	21.64	62.95	−11 +1	17.88	13.34	−2 −11	10.77	19.56	+10 −3
27	21.11	51.41	−1 +7	21.59	63.32	−11 −4	17.69	13.62	+3 −9	10.49	19.68	+12 +2
28	21.19	51.79	−6 +6	21.53	63.69	−9 −8	17.50	13.90	+8 −5	10.21	19.79	+10 +7
29	21.27	52.17	−10 +4	21.47	64.06	−5 −10	17.30	14.17	+11 0	9.93	19.90	+7 +11
30	21.35	52.56	−11 0	21.40	64.43	0 −10	17.10	14.44	+12 +5	9.65	20.00	+2 +13
31	21.42	52.94	−11 −4	21.33	64.80	+6 −7	16.89	14.70	+9 +10	9.37	20.09	−2 +12
32				21.25	65.16	+10 −3				9.09	20.17	−6 +9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85°53'40"	13.968	+13.932	+85°54' 0"	13.986	+13.951	+85°54'20"	14.005	+13.970
50	13.977	+13.941	10	13.996	+13.960	30	14.015	+13.979

$\alpha_{1932.0} = 0^h\ 59^m\ 5^s.93$ $\delta_{1932.0} = +85°\ 53'\ 36''.18$

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^m.12$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$1^h 37^m$	+88° 56′	in $0^s.01$	$0''.01$	$1^h 36^m$	+88° 56′	in $0^s.01$	$0''.01$	$1^h 36^m$	+88° 56′	in $0^s.01$	$0''.01$	$1^h 36^m$	+88° 56′	in $0^s.01$	$0''.01$
1	49.54	42.57	−40	−3	74.28	44.09	+22	−8	45.19	40.04	+43	−1	29.08	31.71	+13	+12
2	48.47	42.72	−29	−7	73.15	44.03	+37	−4	44.38	39.82	+45	+3	28.89	31.41	−4	+12
3	47.39	42.86	−11	−9	72.02	43.97	+43	0	43.59	39.60	+37	+7	28.73	31.10	−20	+9
4	46.29	42.99	+9	−9	70.90	43.90	+41	+5	42.81	39.37	+22	+10	28.59	30.80	−31	+6
5	45.19	43.12	+28	−7	69.79	43.82	+32	+8	42.05	39.14	+5	+11	28.48	30.49	−36	+2
6	44.09	43.24	+40	−3	68.68	43.74	+16	+11	41.32	38.90	−11	+10	28.38	30.19	−34	−3
7	42.98	43.35	+43	+2	67.58	43.65	−1	+11	40.60	38.66	−25	+8	28.31	29.89	−27	−7
8	41.86	43.46	+38	+6	66.49	43.56	−17	+9	39.89	38.42	−34	+4	28.26	29.58	−15	−10
9	40.74	43.56	+26	+10	65.40	43.46	−29	+6	39.21	38.17	−36	0	28.23	29.27	0	−11
10	39.61	43.65	+9	+12	64.32	43.35	−36	+2	38.54	37.92	−33	−4	28.23	28.97	+14	−11
11	38.48	43.74	−8	+11	63.25	43.24	−36	−2	37.90	37.67	−23	−8	28.25	28.66	+26	−9
12	37.34	43.82	−22	+9	62.19	43.12	−30	−6	37.27	37.41	−10	−11	28.29	28.36	+33	−5
13	36.20	43.90	−32	+5	61.14	43.00	−19	−9	36.67	37.15	+4	−11	28.35	28.05	+32	−1
14	35.05	43.97	−36	+1	60.10	42.87	−5	−11	36.08	36.88	+18	−10	28.43	27.75	+24	+3
15	33.90	44.03	−34	−4	59.07	42.73	+10	−11	35.51	36.61	+30	−8	28.54	27.45	+9	+6
16	32.75	44.09	−26	−7	58.06	42.59	+24	−9	34.97	36.34	+34	−4	*)28.67	27.14	−9	+8
17	31.60	44.14	−14	−10	57.05	42.44	+32	−6	34.44	36.07	+30	+1	28.82	26.84	−26	+7
18	30.44	44.18	+1	−11	56.06	42.29	+34	−1	33.94	35.79	+19	+5	28.99	26.54	−39	+4
19	29.28	44.22	+17	−10	55.08	42.13	+28	+3	33.45	35.51	+3	+8	29.18	26.24	−43	0
20	28.12	44.25	+29	−8	54.11	41.97	+14	+7	32.98	35.23	−15	+8	29.40	25.94	−37	−5
21	26.96	44.27	+35	−4	53.15	41.80	−3	+9	32.54	34.95	−31	+6	29.63	25.65	−22	−8
22	25.80	44.29	+34	+1	52.21	41.62	−21	+8	32.11	34.66	−40	+3	29.89	25.35	−2	−9
23	24.64	44.30	+24	+5	51.28	41.44	−35	+6	31.71	34.37	−41	−1	30.17	25.06	+19	−8
24	23.48	44.30	+8	+8	50.37	41.25	−41	+2	31.33	34.08	−30	−5	30.47	24.77	+36	−5
25	22.32	44.30	−10	+9	49.47	41.06	−37	−3	30.97	33.79	−13	−8	30.79	24.47	+45	0
26	21.16	44.29	−27	+8	48.58	40.86	−23	−6	30.64	33.50	+7	−8	31.14	24.18	+44	+5
27	20.00	44.27	−38	+4	47.71	40.66	−4	−8	30.32	33.21	+26	−6	31.50	23.90	+36	+9
28	18.85	44.25	−40	0	46.85	40.46	+16	−8	30.03	32.91	+40	−3	31.88	23.61	+20	+12
29	17.70	44.22	−33	−5	46.01	40.25	+32	−5	29.76	32.61	+46	+2	32.28	23.33	+3	+12
30	16.56	44.18	−17	−8	45.19	40.04	+43	−1	29.51	32.31	+42	+7	32.70	23.05	−14	+11
31	15.42	44.14	+2	−9					29.28	32.01	+30	+10	33.15	22.77	−27	+8
32	14.28	44.09	+22	−8					29.08	31.71	+13	+12				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 56′ 20″	53.999	+53.990	+88° 56′ 30″	54.141	+54.132	+88° 56′ 40″	54.283	+54.274
30	54.141	+54.132	40	54.283	+54.274	50	54.426	+54.417

$\alpha_{1932.0} = 1^h\ 37^m\ 58^s.29$ $\delta_{1932.0} = +88°\ 56'\ 19''.18$

*) Tag der doppelten unteren Kulmination: April 16

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nb) γ Ursae minoris 2^m.12

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$1^h 36^m$	$+88° 56'$	in 0.01^s	$0.01''$	$1^h 36^m$	$+88° 56'$	in 0.01^s	$0.01''$	$1^h 37^m$	$+88° 56'$	in 0.01^s	$0.01''$	$1^h 38^m$	$+88° 56'$	in 0.01^s	$0.01''$
1	33.15	22.77	−27	+8	55.69	15.82	−22	−7	28.74	13.29	+14	−10	6.10	15.73	+31	+2
2	33.61	22.49	−34	+4	56.65	15.66	−9	−9	29.94	13.29	+26	−8	7.27	15.89	+20	+6
3	34.09	22.22	−35	−1	57.63	15.51	+5	−10	31.14	13.29	+33	−5	8.43	16.06	+4	+8
4	34.59	21.95	−29	−5	58.62	15.36	+19	−9	32.34	13.30	+34	0	9.59	16.23	−15	+8
5	35.11	21.69	−18	−8	59.62	15.22	+29	−7	33.55	13.31	+27	+4	10.74	16.41	−30	+6
6	35.66	21.43	−5	−10	60.63	15.08	+35	−3	34.76	13.33	+13	+7	11.89	16.59	−40	+3
7	36.22	21.17	+9	−10	61.66	14.95	+32	+1	35.97	13.36	−4	+8	13.03	16.78	−41	−2
8	36.80	20.91	+22	−9	62.70	14.82	+22	+5	37.18	13.39	−22	+8	14.16	16.97	−32	−6
9	37.40	20.65	+31	−6	63.74	14.70	+6	+7	38.39	13.43	−36	+5	15.29	17.16	−16	−9
10	38.01	20.40	+34	−2	64.80	14.58	−12	+8	39.61	13.47	−42	0	16.41	17.36	+4	−10
11	38.64	20.15	+28	+2	65.86	14.46	−30	+6	40.83	13.52	−39	−4	17.52	17.56	+24	−8
12	39.29	19.90	+16	+5	66.94	14.35	−41	+3	42.05	13.57	−27	−8	18.63	17.77	+38	−4
13	39.96	19.66	−2	+7	68.02	14.25	−43	−2	43.27	13.63	−8	−10	19.72	17.98	+44	+1
14	40.64	19.42	−20	+7	69.12	14.15	−36	−6	44.49	13.69	+13	−10	20.81	18.20	+40	+5
15	41.35	19.19	−35	+5	70.22	14.06	−21	−9	45.70	13.76	+31	−7	21.90	18.42	+28	+9
16	42.07	18.96	−43	+1	71.32	13.97	0	−10	46.92	13.84	+41	−3	22.97	18.65	+11	+11
17	42.80	18.73	−42	−3	72.44	13.89	+21	−9	48.14	13.92	+44	+3	24.03	18.88	−7	+11
18	43.56	18.51	−30	−7	73.57	13.81	+36	−5	49.36	14.00	+36	+7	25.09	19.12	−22	+9
19	44.33	18.29	−12	−10	74.70	13.74	+44	0	50.57	14.09	+22	+11	26.13	19.36	−32	+6
20	45.12	18.07	+9	−9	75.84	13.67	+42	+5	51.78	14.18	+4	+12	27.17	19.60	−35	+1
21	45.92	17.86	+29	−7	76.98	13.61	+32	+9	52.99	14.28	−13	+11	28.20	19.85	−33	−3
22	46.74	17.65	+42	−2	78.13	13.55	+16	+12	54.20	14.39	−26	+8	29.22	20.10	−24	−6
23	47.57	17.45	+46	+3	79.29	13.50	−2	+12	55.41	14.50	−34	+4	30.23	20.36	−11	−9
24	48.42	17.25	+40	+7	80.45	13.45	−18	+11	56.61	14.62	−34	0	31.23	20.62	+3	−10
25	49.28	17.06	+27	+11	81.62	13.41	−29	+7	57.81	14.74	−29	−4	32.22	20.88	+17	−10
26	50.16	16.87	+9	+13	82.79	13.38	−34	+3	59.01	14.87	−19	−7	33.20	21.15	+28	−8
27	51.05	16.68	−8	+12	83.97	13.35	−33	−1	60.20	15.00	−6	−10	34.17	21.42	+33	−4
28	51.95	16.50	−23	+9	85.16	13.33	−26	−5	61.39	15.14	+8	−10	35.13	21.70	+32	0
29	52.87	16.32	−31	+6	86.35	13.31	−15	−8	62.57	15.28	+22	−9	36.07	21.98	+24	+4
30	53.79	16.15	−34	+1	87.54	13.30	−1	−10	63.75	15.43	+31	−6	37.01	22.26	+10	+7
31	54.73	15.98	−31	−3	88.74	13.29	+14	−10	64.93	15.58	+34	−2	37.94	22.55	−8	+8
32	55.69	15.82	−22	−7					66.10	15.73	+31	+2	38.85	22.84	−25	+7

δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 56′ 10″	53.858	+53.849	+88° 56′ 20″	53.999	+53.990
20	53.999	+53.990	30	54.141	+54.132

$\alpha_{1932.0} = 1^h\ 37^m\ 58^s.29$ $\delta_{1932.0} = +88°\ 56'\ 19''.18$

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^m.12$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$1^h\,38^m$	88° 56′	$0^s.01$	$0''.01$	$1^h\,39^m$	88° 56′	$0^s.01$	$0''.01$	$1^h\,38^m$	88° 56′	$0^s.01$	$0''.01$	$1^h\,38^m$	88° 56′	$0^s.01$	$0''.01$
1	$38^s.85$	$22''.84$	−25	+7	$0^s.05$	$32''.92$	−40	−3	$66^s.43$	$45''.15$	+37	−5	$54^s.98$	$55''.60$	+37	+8
2	39.76	23.13	−38	+4	0.52	33.29	−29	−7	66.32	45.52	+45	+1	54.31	55.90	+23	+12
3	40.65	23.43	−42	0	0.98	33.66	−11	−9	66.19	45.90	+43	+6	53.63	56.20	+5	+13
4	41.52	23.73	−36	−4	1.42	34.03	+9	−9	66.04	46.28	+32	+10	52.93	56.49	−13	+12
5	42.39	24.04	−22	−8	1.84	34.41	+29	−7	65.88	46.65	+16	+12	52.21	56.78	−26	+9
6	43.24	24.35	−3	−9	2.25	34.79	+41	−2	65.69	47.02	−2	+13	51.48	57.07	−33	+5
7	44.08	24.66	+18	−9	2.64	35.16	+45	+3	65.49	47.39	−19	+11	50.73	57.35	−33	0
8	44.91	24.97	+34	−5	3.01	35.54	+39	+7	65.27	47.76	−30	+7	49.97	57.63	−27	−4
9	45.73	25.29	+43	−1	3.36	35.93	+25	+11	65.03	48.13	−34	+3	49.19	57.90	−15	−7
10	46.53	25.61	+43	+4	3.70	36.31	+8	+12	64.77	48.50	−32	−2	48.39	58.17	−2	−9
11	47.32	25.93	+34	+8	4.02	36.69	−10	+12	64.50	48.86	−23	−6	47.58	58.43	+12	−9
12	48.10	26.26	+18	+11	4.32	37.07	−25	+9	64.20	49.23	−11	−8	46.76	58.69	+24	−8
13	48.86	26.59	0	+12	4.61	37.46	−33	+5	63.88	49.59	+3	−9	45.92	58.94	+32	−5
14	49.61	26.92	−16	+10	4.87	37.84	−35	+1	63.54	49.95	+17	−9	45.07	59.19	+36	−1
15	50.34	27.25	−29	+7	5.12	38.22	−30	−4	63.18	50.30	+27	−7	44.20	59.43	+31	+2
16	51.06	27.59	−35	+3	{5.35 5.56	38.61 38.99	−20 −7	−7 −9}	62.81	50.66	+33	−4	43.32	59.67	+17	+5
17	51.76	27.93	−34	−1	5.76	39.38	+7	−10	62.41	51.01	+32	−1	42.42	59.90	+2	+7
18	52.45	28.27	−27	−5	5.93	39.76	+20	−9	62.00	51.36	+24	+3	41.51	60.13	−17	+7
19	53.13	28.61	−16	−8	6.09	40.15	+29	−7	61.57	51.70	+11	+6	40.58	60.35	−33	+5
20	53.79	28.96	−2	−10	6.23	40.54	+33	−3	61.12	52.04	−7	+7	39.65	60.57	−42	+1
21	54.44	29.31	+12	−10	6.34	40.92	+30	0	60.66	52.38	−24	+6	38.70	60.78	−43	−3
22	55.07	29.66	+24	−9	6.44	41.31	+19	+4	60.17	52.72	−38	+3	37.73	60.99	−34	−8
23	55.69	30.02	+32	−6	6.53	41.69	+4	+6	59.67	53.05	−44	−1	36.76	61.19	−18	−11
24	56.29	30.37	+33	−2	6.59	42.08	−14	+7	59.15	53.38	−41	−5	35.77	61.39	+3	−11
25	56.87	30.73	+27	+2	6.63	42.46	−30	+6	58.60	53.71	−28	−9	34.77	61.58	+23	−9
26	57.44	31.09	+15	+5	6.66	42.85	−41	+2	58.04	54.03	−10	−11	33.77	61.76	+37	−5
27	57.99	31.45	−2	+7	6.67	43.23	−43	−2	57.47	54.35	+11	−10	32.75	61.94	+43	0
28	58.53	31.82	−20	+7	6.66	43.62	−36	−6	56.87	54.67	+30	−7	31.72	62.11	+39	+6
29	59.05	32.18	−35	+5	6.63	44.00	−20	−9	56.26	54.98	+42	−2	30.68	62.27	+28	+10
30	59.56	32.55	−42	+1	6.58	44.38	0	−10	55.63	55.29	+44	+3	29.63	62.43	+11	+12
31	60.05	32.92	−40	−3	6.51	44.77	+21	−8	54.98	55.60	+37	+8	28.57	62.58	−7	+12
32					6.43	45.15	+37	−5					27.50	62.73	−22	+10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 56′ 20″	53.999	+53.990	+88° 56′ 40″	54.283	+54.274	+88° 56′ 60″	54.570	+54.561
30	54.141	+54.132	50	54.426	+54.417	70	54.715	+54.706

$\alpha_{1932.0} = 1^h\ 37^m\ 58^s.29 \qquad \delta_{1932.0} = +\ 88°\ 56'\ 19''.18$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nc) Grb 750 $6^m.70$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$4^h 14^m$	+85° 22'	in 0.01^s $0.01''$	$4^h 14^m$	+85° 22'	in 0.01^s $0.01''$	$4^h 14^m$	+85° 22'	in 0.01^s $0.01''$	$4^h 14^m$	+85° 22'	in 0.01^s $0.01''$
1	$39^s.61$	$45''.99$	−9 +4	$34^s.46$	$53''.11$	0 −10	$27^s.41$	$54''.95$	+8 −8	$20^s.36$	$51''.37$	+10 +8
2	39.50	46.28	−10 −1	34.24	53.26	+5 −10	27.16	54.92	+11 −5	20.17	51.17	+6 +10
3	39.39	46.57	−7 −6	34.02	53.40	+9 −7	26.91	54.89	+12 0	19.99	50.97	+2 +11
4	39.28	46.87	−3 −9	33.79	53.54	+11 −3	26.66	54.85	+11 +5	19.81	50.76	−2 +10
5	39.16	47.15	+1 −10	33.56	53.67	+11 +2	26.41	54.80	+8 +9	19.64	50.55	−6 +7
6	39.04	47.43	+6 −9	33.33	53.79	+10 +6	26.16	54.75	+4 +10	19.47	50.33	−8 +3
7	38.91	47.70	+10 −6	33.10	53.91	+6 +9	25.91	54.69	0 +10	19.30	50.11	−9 −1
8	38.78	47.97	+11 −1	32.87	54.02	+2 +11	25.66	54.62	−4 +9	19.14	49.89	−9 −5
9	38.65	48.23	+11 +4	32.63	54.13	−2 +10	25.42	54.55	−7 +6	18.98	49.67	−7 −9
10	38.51	48.49	+9 +7	32.39	54.23	−6 +8	25.18	54.47	−9 +1	18.83	49.44	−4 −11
11	38.37	48.75	+5 +10	32.15	54.33	−8 +4	24.94	54.39	−10 −3	18.68	49.21	0 −11
12	38.22	49.01	+1 +11	31.91	54.42	−10 0	24.70	54.30	−8 −7	18.53	48.97	+3 −9
13	38.07	49.26	−3 +9	31.67	54.50	−9 −5	24.46	54.20	−6 −10	18.38	48.73	+6 −6
14	37.91	49.51	−7 +7	31.43	54.58	−8 −8	24.22	54.10	−3 −11	18.24	48.49	+7 −1
15	37.75	49.75	−9 +3	31.18	54.65	−5 −11	23.98	53.99	+1 −11	18.11	48.24	+5 +4
16	37.58	49.99	−10 −2	30.93	54.71	−1 −11	23.74	53.88	+4 −8	17.98	47.99	+3 +8
17	37.41	50.23	−9 −6	30.68	54.77	+3 −10	23.51	53.76	+6 −4	17.85	47.74	−1 +10
18	37.24	50.46	−6 −9	30.43	54.82	+6 −6	23.28	53.63	+7 +1	17.73	47.48	−5 +9
19	37.06	50.68	−3 −11	30.18	54.86	+7 −2	23.05	53.50	+5 +6	17.61	47.22	−9 +7
20	36.88	50.90	+1 −11	29.93	54.90	+7 +3	22.83	53.37	+2 +9	17.50	46.96	−10 +2
21	36.70	51.11	+5 −9	29.68	54.94	+5 +8	22.61	53.23	−2 +10	17.39	46.70	−9 −3
22	36.51	51.32	+7 −5	29.43	54.97	+1 +10	22.39	53.08	−6 +9	17.29	46.43	−6 −7
23	36.32	51.52	+8 +1	29.18	54.99	−3 +10	22.17	52.93	−9 +6	17.19	46.16	−1 −10
24	36.13	51.72	+7 +6	28.92	55.00	−7 +8	21.96	52.78	−9 +1	17.09	45.89	+4 −10
25	35.93	51.91	+4 +9	28.66	55.01	−9 +4	21.75	52.62	−7 −4	17.00	45.62	+9 −7
26	35.73	52.10	−1 +11	28.41	55.01	−8 −2	21.54	52.45	−3 −8	16.92	45.34	+12 −3
27	35.53	52.29	−5 +10	28.16	55.00	−6 −6	21.33	52.28	+1 −10	16.84	45.06	+13 +2
28	35.32	52.46	−8 +6	27.91	54.99	−2 −9	21.13	52.11	+6 −9	16.76	44.78	+11 +6
29	35.11	52.63	−9 +1	27.66	54.97	+3 −10	20.93	51.93	+10 −6	16.69	44.50	+8 +10
30	34.90	52.80	−8 −4	27.41	54.95	+8 −8	20.74	51.75	+12 −1	16.63	44.22	+4 +11
31	34.68	52.96	−5 −8				20.55	51.56	+12 +3	16.57	43.94	−1 +11
32	34.46	53.11	0 −10				20.36	51.37	+10 +8			

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22' 40"	12.409	+12.369	+85° 22' 50"	12.417	+12.376
50	12.417	+12.376	60	12.424	+12.384

$\alpha_{1932.0} = 4^h\ 14^m\ 28^s.91$ $\delta_{1932.0} = +85°\ 22'\ 26''.43$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nc) Grb 750 $6^m.70$

Tag	Mai AR	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$4^h 14^m$	+ 85° 22′	in 0.01^s $0.01''$	$4^h 14^m$	+ 85° 22′	in 0.01^s $0.01''$	$4^h 14^m$	+ 85° 22′	in 0.01^s $0.01''$	$4^h 14^m$	+ 85° 22′	in 0.01^s $0.01''$
1	$16^s.57$	$43''.94$	− 1 +11	$17^s.15$	$34''.90$	− 8 − 2	$21^s.97$	$27''.49$	− 3 −10	$30^s.15$	$23''.16$	+ 7 − 3
2	16.51	43.65	− 4 + 8	17.25	34.62	− 7 − 6	22.19	27.29	0 −11	30.45	23.09	+ 7 + 1
3	16.46	43.36	− 7 + 5	17.35	34.34	− 5 − 9	22.41	27.09	+ 4 − 9	30.75	23.03	+ 6 + 6
4	16.41	43.07	− 9 + 1	17.46	34.06	− 2 −11	22.64	26.90	+ 6 − 6	31.05	22.97	+ 2 + 9
5	16.37	42.78	− 9 − 4	17.57	33.78	+ 2 −10	22.87	26.71	+ 7 − 1	31.35	22.91	− 2 +10
6	16.34	42.49	− 7 − 8	17.69	33.51	+ 5 − 8	23.10	26.53	+ 7 + 4	31.65	22.86	− 6 + 9
7	16.31	42.20	− 4 −10	17.81	33.24	+ 7 − 4	23.34	26.35	+ 4 + 8	31.96	22.81	− 9 + 5
8	16.28	41.91	− 1 −11	17.94	32.97	+ 7 0	23.58	26.17	0 +10	32.27	22.77	−10 0
9	16.26	41.62	+ 2 −10	18.07	32.70	+ 5 + 5	23.83	25.99	− 4 +10	32.58	22.73	− 9 − 5
10	16.25	41.33	+ 5 − 7	18.20	32.43	+ 2 + 9	24.08	25.82	− 8 + 7	32.89	22.70	− 5 − 9
11	16.24	41.04	+ 6 − 3	18.34	32.17	− 2 +10	24.33	25.65	−10 + 3	33.20	22.67	0 −11
12	16.23	40.74	+ 6 + 2	18.48	31.91	− 6 + 9	24.58	25.49	−10 − 2	33.51	22.65	+ 5 −10
13	16.23	40.44	+ 4 + 6	18.63	31.65	−10 + 6	24.83	25.33	− 8 − 7	33.82	22.63	+ 9 − 6
14	16.23	40.14	0 + 9	18.78	31.39	−11 + 1	25.09	25.18	− 3 −10	34.13	22.61	+11 − 2
15	16.24	39.84	− 4 +10	18.93	31.14	−10 − 4	25.35	25.03	+ 2 −11	34.44	22.60	+11 + 3
16	16.26	39.54	− 8 + 8	19.09	30.89	− 6 − 8	25.61	24.89	+ 7 − 9	34.76	22.60	+ 9 + 8
17	16.28	39.24	−10 + 4	19.25	30.64	− 1 −11	25.88	24.75	+10 − 5	35.08	22.60	+ 5 +10
18	16.30	38.94	−10 − 1	19.42	30.40	+ 4 −10	26.15	24.61	+12 0	35.40	22.60	+ 1 +11
19	16.33	38.65	− 8 − 6	19.59	30.16	+ 9 − 7	26.42	24.48	+11 + 5	35.72	22.61	− 3 +10
20	16.37	38.36	− 4 − 9	19.77	29.92	+11 − 2	26.69	24.35	+ 8 + 9	36.04	22.63	− 6 + 7
21	16.41	38.07	+ 2 −10	19.95	29.68	+12 + 3	26.97	24.23	+ 4 +11	36.36	22.65	− 8 + 3
22	16.45	37.78	+ 7 − 9	20.14	29.45	+10 + 7	27.25	24.11	0 +11	36.68	22.68	− 9 − 2
23	16.50	37.49	+11 − 5	20.33	29.22	+ 7 +10	27.53	24.00	− 4 + 9	37.00	22.71	− 8 − 6
24	16.55	37.20	+12 0	20.52	28.99	+ 3 +11	27.81	23.89	− 7 + 5	37.32	22.74	− 5 − 9
25	16.61	36.91	+12 + 5	20.72	28.77	− 1 +11	28.10	23.78	− 8 + 1	37.64	22.78	− 3 −11
26	*)16.67	36.62	+ 9 + 9	20.92	28.55	− 5 + 8	28.39	23.68	− 8 − 3	37.96	22.82	+ 1 −11
27	16.74	36.33	+ 6 +11	21.12	28.33	− 7 + 4	28.68	23.58	− 7 − 7	38.28	22.87	+ 4 − 9
28	16.81	36.04	+ 1 +11	21.33	28.11	− 8 0	28.97	23.49	− 4 −10	38.60	22.92	+ 6 − 5
29	16.89	35.75	− 3 +10	21.54	27.90	− 8 − 4	29.26	23.40	− 1 −11	38.92	22.98	+ 7 0
30	16.97	35.46	− 6 + 6	21.75	27.69	− 6 − 8	29.55	23.32	+ 2 −10	39.24	23.04	+ 6 + 4
31	17.06	35.18	− 8 + 2	21.97	27.49	− 3 −10	29.85	23.24	+ 5 − 7	39.56	23.11	+ 3 + 8
32	17.15	34.90	− 8 − 2				30.15	23.16	+ 7 − 3	39.88	23.18	− 1 +10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22′ 20″	12.394	+12.354	+85° 22′ 30″	12.402	+12.361	+85° 22′ 40″	12.409	+12.369
30	12.402	+12.361	40	12.409	+12.369	50	12.417	+12.376

$\alpha_{1932.0} = 4^h\ 14^m\ 28^s.91 \qquad \delta_{1932.0} = +85°\ 22'\ 26''43$

*) Tag der doppelten unteren Kulmination: Mai 26

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nc) Grb 750 $6^m.70$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$4^h 14^m$	85° 22′	$0^s.01$	0″.01	$4^h 14^m$	85° 22′	$0^s.01$	0″.01	$4^h 14^m$	85° 22′	$0^s.01$	0″.01	$4^h 14^m$	85° 22′	$0^s.01$	0″.01
1	39.88	23.18	− 1	+10	49.06	27.39	−10	+ 4	56.55	35.40	− 1	−10	60.42	45.64	+12	+ 1
2	40.20	23.26	− 5	+10	49.34	27.60	−10	− 1	56.74	35.71	+ 5	−10	60.47	45.98	+12	+ 6
3	40.52	23.34	− 8	+ 7	49.62	27.81	− 7	− 6	56.93	36.02	+ 9	− 7	60.51	46.32	+ 9	+10
4	40.84	23.43	−10	+ 2	49.90	28.03	− 3	− 9	57.11	36.33	+12	− 2	60.55	46.66	+ 5	+12
5	41.16	23.52	− 9	− 3	50.18	28.25	+ 2	−10	57.29	36.64	+12	+ 3	60.59	47.00	0	+11
6	41.48	23.61	− 6	− 7	50.45	28.47	+ 7	− 9	57.46	36.95	+11	+ 8	60.62	47.34	− 3	+ 9
7	41.80	23.71	− 1	−10	50.72	28.69	+11	− 5	57.63	37.27	+ 7	+11	60.64	47.68	− 6	+ 6
8	42.11	23.81	+ 4	−10	50.99	28.92	+12	0	57.79	37.59	+ 3	+12	60.66	48.02	− 8	+ 1
9	42.42	23.92	+ 8	− 8	51.25	29.15	+12	+ 5	57.95	37.91	− 1	+11	60.67	48.36	− 7	− 3
10	42.73	24.03	+11	− 4	51.51	29.39	+ 9	+ 9	58.11	38.23	− 5	+ 8	60.68	48.70	− 6	− 7
11	43.04	24.15	+12	+ 1	51.77	29.63	+ 5	+11	58.26	38.56	− 7	+ 4	60.69	49.04	− 3	− 9
12	43.35	24.27	+10	+ 6	52.03	29.87	+ 1	+11	58.41	38.89	− 8	− 1	60.69	49.37	0	−10
13	43.66	24.40	+ 7	+10	52.28	30.12	− 3	+ 9	58.55	39.22	− 7	− 5	60.68	49.70	+ 3	− 9
14	43.97	24.53	+ 3	+11	52.53	30.37	− 6	+ 6	58.69	39.55	− 5	− 8	60.67	50.03	+ 6	− 7
15	44.28	24.66	− 1	+10	52.78	30.62	− 8	+ 2	58.83	39.88	− 2	−10	60.66	50.36	+ 7	− 3
16	44.59	24.80	− 5	+ 8	53.03	30.88	− 8	− 3	58.96	40.21	+ 1	−10	60.64	50.69	+ 7	+ 2
17	44.90	24.94	− 7	+ 4	53.27	31.14	− 7	− 7	59.09	40.54	+ 4	− 9	60.61	51.02	+ 4	+ 6
18	45.21	25.09	− 9	0	53.51	31.40	− 5	− 9	59.21	40.87	+ 6	− 6	60.58	51.35	+ 1	+ 9
19	45.52	25.24	− 8	− 4	53.75	31.67	− 1	−11	59.33	41.20	+ 6	− 1	60.54	51.68	− 4	+ 9
20	45.82	25.40	− 6	− 8	53.99	31.94	+ 2	−10	59.44	41.54	+ 5	+ 3	60.50	52.00	− 8	+ 8
21	46.12	25.56	− 4	−10	54.22	32.21	+ 4	− 8	59.55	41.88	+ 3	+ 7	60.46	52.32	−11	+ 4
22	46.42	25.72	0	−11	54.45	32.49	+ 6	− 4	59.66	42.22	− 1	+ 9	60.41	52.64	−11	− 1
23	46.72	25.89	+ 3	−10	54.68	32.77	+ 6	0	59.76	42.56	− 5	+ 9	60.35	52.96	−10	− 6
24	47.02	26.06	+ 5	− 7	54.90	33.05	+ 5	+ 5	59.85	42.90	− 9	+ 7	60.29	53.27	− 6	−10
25	47.32	26.24	+ 6	− 2	55.12	33.33	+ 1	+ 8	{59.94 {60.02	43.24 43.58	−11 −11	+ 2} − 3}	60.22	53.58	− 1	−11
26	47.61	26.42	+ 6	+ 2	55.33	33.62	− 3	+10	60.10	43.92	− 8	− 7	60.15	53.89	+ 4	−10
27	47.90	26.61	+ 4	+ 6	55.54	33.91	− 7	+ 9	60.17	44.26	− 3	−10	60.07	54.19	+ 9	− 7
28	48.19	26.80	0	+ 9	55.75	34.20	−10	+ 5	60.24	44.60	+ 2	−11	59.99	54.49	+11	− 2
29	48.48	26.99	− 4	+10	55.96	34.50	−11	+ 1	60.30	44.95	+ 7	− 9	59.90	54.79	+12	+ 4
30	48.77	27.19	− 7	+ 8	56.16	34.80	− 9	− 4	60.36	45.30	+11	− 4	59.81	55.09	+10	+ 8
31	49.06	27.39	−10	+ 4	56.36	35.10	− 6	− 8	60.42	45.64	+12	+ 1	59.72	55.38	+ 6	+11
32					56.55	35.40	− 1	−10					59.62	55.67	+ 2	+12

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 22′ 20″	12.394	+12.354	+85° 22′ 30″	12.402	+12.361	+85° 22′ 50″	12.417	+12.376
30	12.402	+12.361	40	12.409	+12.369	60	12.424	+12.384

$\alpha_{1932.0} = 4^h\ 14^m\ 28^s.91$ $\delta_{1932.0} = +85°\ 22'\ 26''.43$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$7^h\ 9^m$	$+87°\ 9'$	in $0^s.01$	in $0''.01$	$7^h\ 9^m$	$+87°\ 9'$	in $0^s.01$	in $0''.01$	$7^h\ 9^m$	$+87°\ 9'$	in $0^s.01$	in $0''.01$	$7^h\ 9^m$	$+87°\ 9'$	in $0^s.01$	in $0''.01$
1	49.45	33.91	−1	+11	50.43	43.96	−9	−8	43.97	51.39	+2	−12	32.29	54.83	+18	−1
2	49.62	34.22	−7	+10	50.31	44.26	−3	−11	43.64	51.58	+9	−11	31.88	54.85	+16	+4
3	49.78	34.53	−12	+5	50.19	44.56	+4	−12	43.31	51.77	+14	−8	31.47	54.86	+11	+8
4	49.93	34.84	−14	0	50.06	44.86	+11	−10	42.98	51.95	+17	−3	31.06	54.86	+5	+9
5	50.07	35.15	−12	−5	49.92	45.15	+15	−6	42.64	52.13	+17	+1	30.65	54.86	−1	+10
6	50.20	35.46	−7	−9	49.77	45.44	+17	−1	42.30	52.30	+14	+5	30.24	54.85	−7	+8
7	50.33	35.77	0	−11	49.61	45.73	+15	+3	41.96	52.47	+9	+8	29.83	54.84	−12	+5
8	50.45	36.08	+7	−11	49.45	46.01	+12	+7	41.61	52.63	+2	+10	29.43	54.82	−15	+2
9	{50.56 {50.65	36.39 36.71	+13 +16	−8} −4}	49.28	46.29	+6	+9	41.26	52.79	−4	+9	29.03	54.79	−16	−2
10	50.74	37.03	+17	0	49.09	46.57	0	+10	40.90	52.94	−10	+7	28.63	54.76	−14	−6
11	50.82	37.35	+15	+5	48.90	46.85	−6	+9	40.54	53.09	−14	+4	28.23	54.72	−10	−9
12	50.89	37.67	+10	+8	48.71	47.12	−12	+6	40.17	53.23	−16	0	27.83	54.68	−4	−10
13	50.96	37.99	+4	+10	48.50	47.39	−15	+3	39.80	53.37	−16	−4	27.43	54.63	+2	−8
14	51.01	38.31	−2	+10	48.29	47.66	−16	−1	39.42	53.50	−13	−7	27.03	54.58	+7	−5
15	51.05	38.63	−8	+8	48.07	47.92	−15	−5	39.04	53.62	−8	−9	26.63	54.52	+10	0
16	51.09	38.95	−13	+5	47.84	48.18	−11	−8	38.66	53.74	−2	−9	26.24	54.45	+10	+5
17	51.11	39.27	−16	+1	47.60	48.43	−5	−10	38.28	53.86	+4	−7	25.85	54.38	+7	+9
18	51.13	39.59	−16	−3	47.36	48.68	+2	−9	37.89	53.96	+9	−3	25.46	54.30	+2	+11
19	51.14	39.91	−13	−7	47.12	48.93	+7	−6	37.50	54.06	+11	+1	25.07	54.21	−4	+11
20	51.14	40.23	−8	−9	46.86	49.18	+11	−2	37.11	54.16	+10	+6	24.69	54.12	−10	+8
21	51.13	40.55	−2	−10	46.60	49.42	+12	+3	36.72	54.25	+6	+10	24.31	54.03	−13	+3
22	51.11	40.87	+5	−8	46.33	49.66	+10	+8	36.32	54.33	0	+11	23.93	53.93	−13	−2
23	51.08	41.18	+10	−5	46.06	49.89	+5	+11	35.92	54.41	−5	+10	23.56	53.82	−9	−7
24	51.04	41.49	+13	0	45.78	50.12	−1	+11	35.52	54.48	−10	+6	23.19	53.71	−3	−11
25	50.99	41.81	+12	+5	45.49	50.34	−7	+9	35.12	54.54	−12	+1	22.82	53.59	+4	−12
26	50.94	42.12	+9	+9	45.20	50.56	−11	+4	34.72	54.60	−11	−4	22.46	53.46	+11	−10
27	50.87	42.43	+3	+11	44.90	50.78	−12	−1	34.32	54.66	−6	−9	22.10	53.33	+16	−7
28	50.80	42.74	−4	+10	44.59	50.99	−10	−7	33.92	54.70	0	−12	21.74	53.20	+19	−3
29	50.72	43.05	−10	+7	44.28	51.19	−5	−10	33.52	54.74	+7	−12	21.39	53.06	+18	+2
30	50.63	43.36	−13	+2	43.97	51.39	+2	−12	33.11	54.78	+13	−9	21.04	52.91	+14	+6
31	50.53	43.66	−12	−3					32.70	54.81	+17	−5	20.69	52.76	+8	+9
32	50.43	43.96	−9	−8					32.29	54.83	+18	−1				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9′ 30″	20.171	+20.146	+87° 9′ 40″	20.191	+20.166	+87° 9′ 50″	20.210	+20.186
40	20.191	+20.166	50	20.210	+20.186	60	20.230	+20.206

$\alpha_{1932.0} = 7^h\ 9^m\ 18^s.71$ $\delta_{1932.0} = +87°\ 9'\ 28''.92$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$7^h\ 9^m$	$+87°\ 9'$	in $0.^s01$	in $0.''01$	$7^h\ 9^m$	$+87°\ 9'$	in $0.^s01$	in $0.''01$	$7^h\ 9^m$	$+87°\ 9'$	in $0.^s01$	in $0.''01$	$7^h\ 9^m$	$+87°\ 9'$	in $0.^s01$	in $0.''01$
1	$20.^s69$	$52.''76$	+8	+9	$12.^s65$	$45.''95$	−12	+4	$11.^s06$	$36.''80$	−12	−6	$16.^s31$	$27.''08$	+6	−7
2	20.35	52.61	+2	+10	12.49	45.67	−14	0	11.12	36.48	−9	−9	16.59	26.79	+10	−3
3	20.01	52.45	−4	+9	12.34	45.39	−14	−4	11.19	36.15	−3	−10	16.87	26.50	+12	+1
4	19.68	52.28	−10	+6	12.19	45.11	−12	−7	11.26	35.83	+3	−9	17.16	26.21	+11	+6
5	19.35	52.11	−14	+3	12.05	44.83	−7	−9	11.35	35.51	+8	−6	17.46	25.92	+6	+10
6	19.03	51.94	−15	−1	11.92	44.54	−2	−10	11.44	35.19	+11	−1	17.77	25.63	0	+11
7	18.71	51.76	−14	−5	11.80	44.25	+4	−8	11.54	34.87	+12	+3	18.08	25.35	−7	+10
8	18.40	51.58	−11	−8	11.68	43.96	+9	−4	11.64	34.55	+9	+8	18.39	25.07	−12	+7
9	18.09	51.39	−6	−10	11.57	43.67	+11	+1	*)11.76	34.23	+3	+11	18.71	24.79	−14	+2
10	17.79	51.20	0	−9	11.47	43.37	+10	+5	11.88	33.91	−4	+11	19.04	24.51	−13	−4
11	17.50	51.00	+6	−6	11.38	43.07	+6	+10	12.00	33.59	−10	+9	19.37	24.24	−9	−9
12	17.21	50.80	+9	−2	11.29	42.77	0	+12	12.14	33.27	−14	+5	19.71	23.97	−2	−11
13	16.92	50.59	+10	+3	11.21	42.47	−7	+11	12.28	32.95	−15	−1	20.05	23.70	+5	−11
14	16.64	50.38	+8	+7	11.14	42.16	−12	+8	12.43	32.63	−13	−6	20.40	23.44	+12	−9
15	16.37	50.16	+4	+11	11.07	41.85	−15	+3	12.59	32.31	−7	−10	20.76	23.18	+16	−5
16	16.10	49.94	−3	+12	11.02	41.54	−14	−3	12.76	31.99	+1	−12	21.12	22.92	+17	0
17	15.84	49.72	−9	+10	10.97	41.23	−10	−8	12.93	31.67	+8	−11	21.48	22.66	+15	+4
18	15.58	49.49	−13	+6	10.92	40.92	−3	−11	13.11	31.35	+14	−8	21.85	22.41	+11	+8
19	15.33	49.26	−14	0	10.89	40.61	+4	−12	13.29	31.04	+17	−3	22.23	22.16	+5	+10
20	15.08	49.03	−12	−5	10.86	40.30	+12	−10	13.48	30.73	+17	+2	22.61	21.91	−1	+9
21	14.84	48.79	−7	−9	10.84	39.99	+16	−6	13.68	30.42	+14	+6	22.99	21.66	−7	+8
22	14.61	48.55	+1	−12	10.83	39.67	+18	−1	13.89	30.11	+9	+9	23.38	21.42	−12	+4
23	14.38	48.31	+8	−11	10.83	39.36	+17	+3	14.10	29.80	+3	+10	23.78	21.18	−14	+1
24	14.16	48.06	+15	−9	10.83	39.04	+13	+7	14.32	29.49	−3	+9	24.18	20.94	−14	−3
25	13.95	47.81	+18	−4	10.84	38.72	+7	+9	14.55	29.18	−9	+7	24.59	20.71	−12	−7
26	13.74	47.55	+19	0	10.86	38.40	+1	+10	14.78	28.87	−13	+3	25.00	20.48	−8	−9
27	13.54	47.29	+16	+5	10.88	38.08	−5	+8	15.02	28.57	−14	−1	25.42	20.25	−3	−10
28	13.35	47.03	+11	+8	10.91	37.76	−10	+5	15.26	28.27	−14	−5	25.84	20.03	+3	−8
29	13.17	46.77	+5	+10	10.95	37.44	−13	+2	15.51	27.97	−11	−8	26.26	19.81	+8	−5
30	12.99	46.50	−2	+9	11.00	37.12	−14	−2	15.77	27.67	−6	−9	26.69	19.59	+11	0
31	12.81	46.23	−8	+7	11.06	36.80	−12	−6	16.04	27.37	0	−9	27.12	19.38	+11	+5
32	12.65	45.95	−12	+4					16.31	27.08	+6	−7	27.56	19.17	+8	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9′ 10″	20.132	+20.107	+87° 9′ 30″	20.171	+20.146	+87° 9′ 50″	20.210	+20.186
20	20.151	+20.126	40	20.191	+20.166	60	20.230	+20.206

$\alpha_{1932.0} = 7^h\ 9^m\ 18^s.71$ $\delta_{1932.0} = +87°\ 9'\ 28''.92$

*) Tag der doppelten unteren Kulmination: Juli 9

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$7^h 9^m$	$+87° 9'$	in $0^s.01$ $0''.01$	$7^h 9^m$	$+87° 9'$	in $0^s.01$ $0''.01$	$7^h 9^m$	$+87° 9'$	in $0^s.01$ $0''.01$	$7^h 10^m$	$+87° 9'$	in $0^s.01$ $0''.01$
1	27.56	19.17	+ 8 + 9	42.18	14.75	− 8 +10	58.52	14.50	− 9 − 8	12.39	18.74	+ 9 −11
2	28.00	18.97	+ 3 +11	42.70	14.67	−12 + 6	59.03	14.57	− 2 −11	12.78	18.95	+16 − 8
3	28.45	18.77	− 4 +11	43.22	14.59	−14 0	59.54	14.65	+ 5 −12	13.16	19.17	+19 − 3
4	28.90	18.57	−10 + 8	43.75	14.52	−12 − 5	60.05	14.73	+13 −10	13.54	19.39	+19 + 2
5	29.35	18.38	−13 + 4	44.28	14.45	− 6 − 9	60.55	14.81	+17 − 6	13.91	19.62	+16 + 6
6	29.80	18.19	−13 − 2	44.81	14.39	+ 1 −12	61.05	14.90	+19 − 1	14.28	19.85	+10 + 9
7	30.26	18.00	−10 − 7	45.34	14.33	+ 8 −11	61.55	15.00	+18 + 4	14.64	20.08	+ 3 +10
8	30.72	17.82	− 4 −11	45.87	14.28	+14 − 9	62.05	15.10	+13 + 7	14.99	20.32	− 3 + 8
9	31.19	17.64	+ 3 −12	46.40	14.23	+18 − 4	62.54	15.21	+ 7 + 9	15.34	20.56	− 8 + 6
10	31.66	17.46	+10 −10	46.93	14.19	+18 + 1	63.03	15.32	0 + 9	15.68	20.80	−12 + 2
11	32.14	17.29	+15 − 7	47.47	14.15	+16 + 5	63.52	15.44	− 6 + 8	16.02	21.05	−13 − 2
12	32.62	17.12	+18 − 2	48.00	14.12	+10 + 8	64.00	15.56	−10 + 4	16.34	21.30	−12 − 5
13	33.10	16.96	+17 + 3	48.53	14.09	+ 4 +10	64.48	15.68	−13 + 1	16.66	21.55	− 9 − 8
14	33.58	16.80	+13 + 7	49.06	14.06	− 3 + 9	64.95	15.81	−13 − 3	16.97	21.81	− 4 − 9
15	34.07	16.64	+ 7 + 9	49.59	14.04	− 8 + 7	65.42	15.95	−12 − 7	17.28	22.07	+ 1 − 9
16	34.56	16.49	+ 1 +10	50.12	14.03	−12 + 3	65.89	16.09	− 8 − 9	17.57	22.34	+ 6 − 7
17	35.05	16.34	− 5 + 9	50.65	14.02	−14 0	66.36	16.23	− 3 − 9	17.86	22.61	+ 9 − 3
18	35.54	16.20	−10 + 6	51.18	14.02	−14 − 4	66.82	16.38	+ 2 − 8	18.15	22.88	+10 + 2
19	36.04	16.06	−14 + 2	51.71	14.02	−11 − 7	67.28	16.54	+ 7 − 5	18.42	23.15	+ 8 + 7
20	36.54	15.93	−15 − 2	52.24	14.03	− 7 − 9	67.73	16.70	+ 9 − 1	18.69	23.42	+ 4 +10
21	37.04	15.80	−13 − 6	52.77	14.04	− 2 − 9	68.18	16.86	+ 9 + 4	18.95	23.70	− 2 +11
22	37.55	15.68	−10 − 8	53.30	14.06	+ 4 − 7	68.63	17.03	+ 6 + 8	19.20	23.98	− 9 +11
23	38.06	15.56	− 5 − 9	53.83	14.08	+ 8 − 4	69.07	17.20	+ 1 +11	19.44	24.26	−14 + 7
24	38.57	15.44	0 − 9	54.36	14.11	+10 + 1	69.50	17.38	− 5 +12	19.68	24.55	−17 + 2
25	39.08	15.33	+ 6 − 6	54.89	14.14	+ 9 + 6	69.93	17.56	−11 + 9	19.91	24.84	−15 − 4
26	39.59	15.22	+ 9 − 2	55.41	14.17	+ 5 + 9	70.35	17.75	−15 + 5	20.12	25.13	−11 − 8
27	40.10	15.12	+10 + 3	55.93	14.21	0 +12	70.77	17.94	−16 0	20.33	25.42	− 3 −11
28	40.62	15.02	+ 9 + 7	56.45	14.26	− 7 +11	71.18	18.13	−13 − 6	20.54	25.72	+ 5 −11
29	41.14	14.92	+ 4 +11	56.97	14.31	−12 + 8	71.59	18.33	− 7 −10	20.73	26.02	+12 − 9
30	41.66	14.83	− 2 +11	57.49	14.37	−14 + 3	71.99	18.53	+ 1 −12	20.92	26.32	+17 − 5
31	42.18	14.75	− 8 +10	58.01	14.43	−14 − 3	72.39	18.74	+ 9 −11	21.09	26.62	+19 0
32				58.52	14.50	− 9 − 8				21.26	26.92	+17 + 5

δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 9′ 10″	20.132	+20.107	+87° 9′ 20″	20.151	+20.126
20	20.151	+20.126	30	20.171	+20.146

$\alpha_{1932.0} = 7^h\ 9^m\ 18^s.71$ $\delta_{1932.0} = +87°\ 9'\ 28''.92$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^{m}.58$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$9^{h}27^{m}$	$+81°37'$	in $0.^{s}01$ $0.''01$	$9^{h}27^{m}$	$+81°37'$	in $0.^{s}01$ $0.''01$	$9^{h}27^{m}$	$+81°37'$	in $0.^{s}01$ $0.''01$	$9^{h}27^{m}$	$+81°38'$	in $0.^{s}01$ $0.''01$
1	$42.^{s}54$	$36.''75$	+2 +10	$45.^{s}66$	$43.''97$	−5 + 2	$46.^{s}03$	$52.''85$	−2 −11	$43.^{s}81$	$0.''57$	+6 − 7
2	42.68	36.92	−1 +11	45.71	44.25	−5 − 3	46.00	53.14	+1 −12	43.70	0.76	+6 − 2
3	42.82	37.09	−3 + 9	45.77	44.54	−3 − 8	45.96	53.43	+3 −11	43.59	0.94	+5 + 2
4	42.95	37.27	−5 + 5	45.82	44.83	−1 −11	45.92	53.72	+5 − 9	43.48	1.12	+4 + 6
5	43.08	37.46	−5 0	45.87	45.12	+2 −12	45.88	54.01	+6 − 5	43.37	1.29	+1 + 8
6	43.21	37.65	−4 − 5	45.91	45.41	+4 −10	45.83	54.29	+6 0	43.26	1.46	−1 + 9
7	43.34	37.85	−2 − 9	45.95	45.70	+6 − 7	45.78	54.57	+5 + 4	43.14	1.63	−3 + 9
8	43.46	38.05	0 −12	45.99	46.00	+6 − 3	45.73	54.85	+3 + 7	43.03	1.79	−5 + 7
9	43.58	38.25	+3 −11	46.02	46.29	+5 + 2	45.68	55.12	+1 + 9	42.91	1.94	−6 + 4
10	43.70	38.46	+5 − 9	46.06	46.59	+4 + 5	45.62	55.40	−2 +10	42.80	2.09	−6 0
11	43.82	38.67	+6 − 6	46.09	46.88	+2 + 8	45.56	55.67	−4 + 8	42.68	2.23	−5 − 4
12	43.93	38.89	+6 − 1	46.11	47.18	0 +10	45.50	55.93	−6 + 6	42.56	2.37	−3 − 6
13	44.05	39.11	+5 + 3	{46.14 {46.16	47.48 47.78	−3 +10} −5 + 8}	45.44	56.20	−6 + 3	42.44	2.50	−1 − 7
14	44.16	39.34	+3 + 6	46.18	48.08	−6 + 5	45.37	56.46	−6 − 1	42.32	2.63	+2 − 6
15	44.26	39.57	+1 + 9	46.19	48.38	−6 + 1	45.30	56.72	−5 − 5	42.20	2.75	+4 − 4
16	44.37	39.80	−1 +10	46.20	48.69	−6 − 3	45.23	56.98	−3 − 7	42.08	2.87	+5 0
17	44.47	40.04	−4 + 9	46.20	48.99	−4 − 6	45.15	57.23	0 − 8	41.96	2.98	+4 + 5
18	44.56	40.28	−5 + 7	46.21	49.29	−1 − 8	45.08	57.48	+3 − 6	41.83	3.09	+3 + 9
19	44.66	40.52	−6 + 3	46.21	49.59	+2 − 8	45.00	57.72	+4 − 3	41.71	3.19	+1 +11
20	44.75	40.77	−6 − 1	46.21	49.89	+4 − 5	44.92	57.97	+5 + 2	41.58	3.28	−2 +10
21	44.84	41.02	−5 − 5	46.21	50.19	+5 − 2	44.84	58.21	+4 + 6	41.46	3.37	−4 + 7
22	44.93	41.27	−3 − 7	46.20	50.49	+5 + 3	44.76	58.44	+2 + 9	41.33	3.46	−5 + 3
23	45.02	41.53	0 − 9	46.19	50.79	+4 + 7	44.67	58.67	0 +10	41.20	3.54	−5 − 3
24	45.10	41.79	+3 − 7	46.18	51.09	+2 + 9	44.58	58.90	−2 + 9	41.07	3.62	−3 − 8
25	45.18	42.05	+5 − 5	46.16	51.38	−1 +10	44.49	59.12	−4 + 5	40.94	3.69	−1 −12
26	45.26	42.31	+5 0	46.14	51.68	−3 + 7	44.40	59.34	−5 0	40.81	3.75	+2 −13
27	45.33	42.58	+5 + 5	46.11	51.98	−5 + 3	44.30	59.56	−4 − 5	40.68	3.80	+4 −12
28	45.40	42.86	+3 + 8	46.09	52.27	−5 − 2	44.21	59.77	−2 −10	40.55	3.85	+6 − 9
29	45.47	43.13	+1 +10	46.06	52.56	−4 − 7	44.11	59.97	0 −12	40.42	3.90	+7 − 5
30	45.53	43.41	−2 + 9	46.03	52.85	−2 −11	44.01	60.18	+3 −13	40.29	3.94	+6 0
31	45.60	43.69	−4 + 6				43.91	60.38	+5 −10	40.16	3.97	+5 + 4
32	45.66	43.97	−5 + 2				43.81	60.57	+6 − 7			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 37′ 30″	6.865	+6.793	+81° 37′ 50″	6.870	+6.797	+81° 38′ 0″	6.873	+6.799
40	6.868	+6.795	60	6.873	+6.799	10	6.875	+6.802

$\alpha_{1932.0} = 9^{h}\ 27^{m}\ 32^{s}.61 \qquad \delta_{1932.0} = +81°\ 37'\ 45''56$

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$9^h 27^m$	+81° 38′	in 0.01s 0.01″	$9^h 27^m$	+81° 37′	in 0.01s 0.01″	$9^h 27^m$	+81° 37′	in 0.01s 0.01″	$9^h 27^m$	+81° 37′	in 0.01s 0.01″
1	40.16	3.97	+5 + 4	36.31	62.22	−3 + 8	33.68	55.96	−6 0	32.82	46.35	+1 − 8
2	40.03	4.00	+2 + 7	36.20	62.08	−5 + 5	33.62	55.69	−5 − 4	32.83	46.01	+3 − 6
3	39.90	4.02	0 + 9	36.09	61.93	−6 + 2	33.56	55.42	−3 − 7	32.84	45.67	+5 − 3
4	39.77	4.04	−2 + 9	35.99	61.78	−6 − 2	33.51	55.14	−1 − 8	32.85	45.32	+5 + 1
5	39.64	4.05	−4 + 7	35.88	61.62	−4 − 5	33.46	54.85	+2 − 8	32.87	44.98	+4 + 6
6	39.51	4.05	−6 + 4	35.78	61.46	−2 − 7	33.41	54.57	+4 − 5	32.88	44.63	+2 + 9
7	39.38	4.05	−6 + 1	35.68	61.29	0 − 8	33.36	54.28	+5 − 1	32.90	44.29	0 +11
8	39.25	4.05	−5 − 3	35.57	61.12	+2 − 7	33.31	53.99	+5 + 4	32.92	43.94	−3 +10
9	39.12	4.04	−4 − 6	35.47	60.94	+4 − 3	33.26	53.70	+4 + 8	32.94	43.59	−5 + 6
10	38.99	4.02	−2 − 7	35.38	60.76	+5 + 1	33.22	53.41	+1 +11	32.96	43.24	−6 + 1
11	38.86	4.00	+1 − 7	35.28	60.57	+4 + 6	33.18	53.11	−2 +11	32.99	42.89	−5 − 4
12	38.73	3.97	+3 − 5	35.18	60.38	+2 + 9	33.14	52.81	−4 + 9	33.02	42.54	−3 − 9
13	38.60	3.93	+4 − 1	35.08	60.18	0 +11	33.10	52.51	−5 + 5	*)33.05	42.19	−1 −11
14	38.47	3.89	+5 + 3	34.99	59.98	−3 +11	33.07	52.20	−6 − 1	33.09	41.84	+2 −12
15	38.35	3.85	+4 + 8	34.90	59.78	−5 + 8	33.04	51.89	−5 − 6	33.13	41.49	+5 −10
16	38.22	3.80	+1 +11	34.81	59.57	−6 + 3	33.01	51.58	−2 −10	33.17	41.14	+6 − 6
17	38.10	3.74	−1 +11	34.72	59.36	−5 − 3	32.98	51.27	+1 −12	33.21	40.79	+6 − 2
18	37.98	3.67	−3 + 9	34.64	59.14	−3 − 8	32.96	50.95	+3 −11	33.25	40.44	+6 + 3
19	37.85	3.60	−5 + 5	34.55	58.92	−1 −11	32.93	50.64	+5 − 9	33.29	40.09	+4 + 6
20	37.73	3.53	−5 0	34.47	58.69	+2 −12	32.91	50.32	+6 − 5	33.34	39.74	+1 + 8
21	37.61	3.45	−4 − 6	34.39	58.46	+4 −11	32.89	50.00	+6 0	33.39	39.39	−1 + 9
22	37.48	3.36	−2 −10	34.31	58.23	+6 − 8	32.87	49.68	+5 + 4	33.44	39.04	−3 + 8
23	37.36	3.27	+1 −12	34.23	57.99	+7 − 3	32.85	49.36	+3 + 7	33.50	38.69	−5 + 6
24	37.24	3.17	+3 −12	34.15	57.75	+6 + 1	32.84	49.03	+1 + 9	33.56	38.34	−6 + 3
25	37.12	3.07	+5 −10	34.08	57.51	+5 + 5	32.84	48.70	−2 + 9	33.62	37.99	−6 − 1
26	37.00	2.97	+7 − 6	34.01	57.26	+2 + 8	32.83	48.37	−4 + 7	33.68	37.64	−5 − 4
27	36.88	2.86	+7 − 2	33.94	57.00	0 + 9	32.82	48.04	−5 + 4	33.74	37.29	−3 − 7
28	36.77	2.74	+6 + 3	33.87	56.75	−3 + 8	32.82	47.70	−6 + 1	33.80	36.94	−1 − 8
29	36.65	2.62	+4 + 6	33.81	56.49	−4 + 6	32.82	47.37	−5 − 3	33.87	36.60	+2 − 7
30	36.54	2.49	+1 + 8	33.74	56.23	−6 + 3	32.81	47.03	−4 − 6	33.94	36.25	+4 − 4
31	36.42	2.36	−1 + 9	33.68	55.96	−6 0	32.81	46.69	−2 − 8	34.01	35.90	+5 0
32	36.31	2.22	−3 + 8				32.82	46.35	+1 − 8	34.08	35.55	+5 + 4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 37′ 30″	6.865	+6.793	+81° 37′ 50″	6.870	+6.797	+81° 38′ 0″	6.873	+6.799
40	6.868	+6.795	60	6.873	+6.799	10	6.875	+6.802

$\alpha_{1932.0} = 9^h\ 27^m\ 32^s.61$ $\delta_{1932.0} = +81°\ 37'\ 45''.56$

*) Tag der doppelten unteren Kulmination: Aug. 13

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$9^h 27^m$	+ 81° 37′	in 0.01s 0.01″	$9^h 27^m$	+ 81° 37′	in 0.01s 0.01″	$9^h 27^m$	+ 81° 37′	in 0.01s 0.01″	$9^h 27^m$	+ 81° 37′	in 0.01s 0.01″
1	34.08	35.55	+5 + 4	37.18	25.96	−1 +11	41.91	18.87	−5 − 3	47.16	16.33	+1 −12
2	34.16	35.21	+3 + 8	37.31	25.68	−3 + 9	42.08	18.71	−3 − 8	47.33	16.33	+4 −12
3	34.24	34.87	+1 +10	37.44	25.40	−5 + 5	42.25	18.55	0 −12	47.51	16.34	+6 − 9
4	34.32	34.53	−2 +10	37.58	25.12	−5 0	42.42	18.40	+2 −13	47.68	16.36	+7 − 5
5	34.40	34.19	−4 + 7	37.71	24.85	−4 − 6	42.59	18.25	+5 −11	47.85	16.38	+7 − 1
6	34.48	33.85	−5 + 3	37.85	24.58	−2 −10	42.76	18.11	+7 − 8	48.02	16.40	+5 + 3
7	34.56	33.52	−5 − 2	37.99	24.31	0 −12	42.94	17.98	+7 − 3	48.20	16.43	+3 + 7
8	34.65	33.18	−4 − 7	38.13	24.05	+3 −12	43.11	17.85	+6 + 1	48.37	16.47	+1 + 8
9	34.74	32.84	−1 −11	38.27	23.79	+6 −10	43.28	17.72	+4 + 5	48.54	16.51	−2 + 8
10	34.83	32.51	+1 −12	38.42	23.53	+7 − 6	43.45	17.60	+2 + 8	48.71	16.56	−4 + 6
11	34.92	32.18	+4 −11	38.57	23.28	+7 − 1	43.63	17.49	0 + 8	48.88	16.61	−5 + 3
12	35.02	31.85	+6 − 8	38.72	23.03	+5 + 3	43.80	17.38	−3 + 7	49.04	16.67	−5 0
13	35.12	31.52	+7 − 4	38.86	22.78	+3 + 6	43.98	17.27	−5 + 5	49.21	16.73	−5 − 3
14	35.22	31.19	+6 + 1	39.01	22.54	+1 + 8	44.16	17.17	−5 + 2	49.37	16.80	−3 − 6
15	35.32	30.87	+4 + 5	39.17	22.30	−2 + 8	44.33	17.08	−5 − 1	49.54	16.88	−1 − 8
16	35.42	30.54	+2 + 8	39.32	22.07	−4 + 7	44.51	16.99	−5 − 4	49.70	16.96	+1 − 7
17	35.52	30.22	0 + 9	39.47	21.83	−5 + 5	44.69	16.91	−3 − 6	49.86	17.05	+3 − 6
18	35.63	29.90	−3 + 8	39.63	21.60	−6 + 1	44.86	16.83	−1 − 7	50.02	17.14	+4 − 2
19	35.74	29.59	−4 + 6	39.78	21.38	−6 − 2	45.04	16.76	+1 − 6	50.18	17.24	+4 + 3
20	35.85	29.27	−6 + 4	39.94	21.16	−4 − 5	45.22	16.69	+3 − 4	50.34	17.35	+3 + 7
21	35.96	28.95	−6 0	40.10	20.95	−2 − 7	45.40	16.63	+4 0	50.50	17.46	+1 +11
22	36.07	28.64	−5 − 3	40.26	20.74	0 − 7	45.57	16.58	+4 + 5	50.65	17.57	−1 +12
23	36.19	28.34	−4 − 6	40.42	20.53	+2 − 6	45.75	16.53	+3 + 9	50.80	17.69	−4 +11
24	36.31	28.03	−2 − 7	40.58	20.33	+4 − 3	45.93	16.48	+1 +11	50.95	17.82	−5 + 8
25	36.43	27.73	+1 − 7	40.74	20.13	+4 + 2	46.11	16.44	−2 +12	51.10	17.95	−6 + 2
26	36.55	27.43	+3 − 5	40.90	19.94	+4 + 6	46.28	16.41	−4 +10	51.25	18.09	−5 − 3
27	36.67	27.13	+4 − 1	41.07	19.75	+2 +10	46.46	16.38	−6 + 5	51.40	18.23	−3 − 8
28	36.79	26.83	+5 + 3	41.24	19.57	0 +11	46.63	16.36	−6 0	51.54	18.38	0 −11
29	36.92	26.54	+4 + 7	41.40	19.39	−3 +10	46.81	16.35	−4 − 6	51.68	18.53	+2 −12
30	37.05	26.25	+2 +10	41.57	19.21	−5 + 7	46.98	16.34	−2 −10	51.82	18.69	+5 −10
31	37.18	25.96	−1 +11	41.74	19.04	−6 + 2	47.16	16.33	+1 −12	51.96	18.85	+7 − 7
32				41.91	18.87	−5 − 3				52.09	19.02	+7 − 2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 37′ 10″	6.861	+6.788	+81° 37′ 20″	6.863	+6.790	+81° 37′ 30″	6.865	+6.793
20	6.863	+6.790	30	6.865	+6.793	40	6.868	+6.795

$\alpha_{1932.0} = 9^h\ 27^m\ 32^s.61 \qquad \delta_{1932.0} = +81°\ 37'\ 45''.56$

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^{m}.34$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$10^{h}\ 23^{m}$	+ 82° 54′	in 0.01^{s} | $0.01''$	$10^{h}\ 23^{m}$	+ 82° 54′	in 0.01^{s} | $0.01''$	$10^{h}\ 23^{m}$	+ 82° 54′	in 0.01^{s} | $0.01''$	$10^{h}\ 23^{m}$	+ 82° 54′	in 0.01^{s} | $0.01''$
1	$7^{s}.50$	$7''.85$	+4 + 8	$12^{s}.04$	$13''.53$	−5 + 4	$13^{s}.63$	$22''.16$	−3 − 9	$12^{s}.06$	$30''.94$	+6 − 9
2	7.68	7.95	+1 +10	12.14	13.78	−6 − 1	13.63	22.47	−1 −12	11.96	31.18	+7 − 5
3	7.86	8.06	−2 + 9	12.24	14.04	−5 − 6	13.62	22.77	+2 −12	11.86	31.42	+7 0
4	8.04	8.18	−5 + 7	12.34	14.30	−3 −10	13.61	23.08	+5 −10	11.76	31.65	+5 + 4
5	8.21	8.30	−6 + 2	12.43	14.56	0 −12	13.60	23.39	+6 − 7	11.65	31.88	+3 + 7
6	8.39	8.43	−6 − 3	12.52	14.83	+3 −11	13.59	23.69	+7 − 3	11.54	32.11	0 + 9
7	8.56	8.56	−4 − 8	12.61	15.10	+5 − 9	13.57	23.99	+6 + 2	11.43	32.33	−3 + 9
8	8.73	8.70	−1 −11	12.69	15.37	+6 − 5	13.54	24.29	+4 + 6	11.32	32.55	−5 + 8
9	8.90	8.84	+2 −12	12.77	15.65	+6 − 1	13.52	24.59	+2 + 8	11.20	32.76	−6 + 6
10	9.06	8.99	+4 −11	12.84	15.92	+5 + 3	13.49	24.89	−1 +10	11.09	32.97	−7 + 3
11	9.23	9.14	+6 − 8	12.92	16.20	+3 + 7	13.46	25.18	−4 +10	10.97	33.17	−7 − 1
12	9.39	9.30	+7 − 4	12.99	16.48	+1 + 9	13.42	25.48	−6 + 8	10.85	33.37	−5 − 4
13	9.54	9.47	+6 + 1	13.05	16.77	−2 +10	13.38	25.78	−7 + 5	10.73	33.57	−2 − 6
14	9.70	9.64	+5 + 5	13.11	17.06	−4 + 9	13.34	26.07	−7 + 1	10.61	33.76	+1 − 7
15	9.85	9.82	+2 + 8	13.17	17.35	−6 + 7	13.29	26.36	−6 − 2	10.49	33.95	+4 − 5
16	10.00	10.00	0 +10	13.23	17.64	−7 + 4	13.24	26.65	−4 − 5	10.36	34.13	+5 − 2
17	10.15	10.19	−3 +10	13.28	17.94	−7 0	13.19	26.94	−1 − 7	10.23	34.31	+6 + 3
18	10.30	10.38	−5 + 8	13.32	18.23	−5 − 4	13.13	27.22	+2 − 7	10.10	34.48	+5 + 7
19	10.44	10.58	−7 + 6	13.37	18.53	−2 − 7	13.07	27.50	+5 − 4	9.97	34.65	+2 +10
20	10.58	10.78	−7 + 2	13.41	18.83	+1 − 8	13.01	27.78	+6 0	9.84	34.81	−1 +10
21	10.72	10.99	−6 − 2	13.45	19.13	+4 − 6	12.95	28.06	+6 + 4	9.71	34.96	−3 + 8
22	10.85	11.20	−4 − 6	13.48	19.43	+6 − 4	12.88	28.34	+4 + 7	9.57	35.11	−5 + 4
23	10.98	11.41	−1 − 8	13.51	19.73	+6 + 1	12.81	28.62	+2 + 9	9.43	35.26	−6 − 1
24	11.11	11.63	+2 − 8	13.54	20.03	+5 + 5	12.74	28.89	−2 + 9	9.29	35.40	−5 − 6
25	11.24	11.85	+5 − 6	13.56	20.33	+3 + 8	12.67	29.16	−4 + 6	9.15	35.53	−3 −10
26	11.36	12.08	+6 − 2	13.58	20.64	0 + 9	12.59	29.43	−5 + 2	9.00	35.66	0 −13
27	11.48	12.31	+6 + 2	{13.60 / 13.61	20.94 / 21.25	−3 + 8 / −5 + 5}	12.50	29.69	−5 − 3	8.86	35.79	+3 −13
28	11.60	12.55	+5 + 6	13.62	21.55	−6 0	12.42	29.94	−4 − 8	8.71	35.91	+6 −11
29	11.71	12.79	+2 + 9	13.62	21.86	−5 − 5	12.33	30.20	−2 −12	8.57	36.02	+7 − 7
30	11.82	13.03	−1 + 9	13.63	22.16	−3 − 9	12.24	30.45	+1 −13	8.42	36.13	+7 − 2
31	11.93	13.28	−4 + 7				12.15	30.70	+4 −12	8.27	36.24	+6 + 2
32	12.04	13.53	−5 + 4				12.06	30.94	+6 − 9			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54′ 0″	8.091	+8.029	+82° 54′ 20″	8.097	+8.035	+82° 54′ 30″	8.100	+8.038
10	8.094	+8.032	30	8.100	+8.038	40	8.103	+8.041

$\alpha_{1932.0} = 10^{h}\ 22^{m}\ 57^{s}.26$ $\delta_{1932.0} = +82°\ 54'\ 21''.59$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^m.34$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$10^h\,23^m$	+82° 54′	in $0^s.01$	in $0''.01$	$10^h\,22^m$	+82° 54′	in $0^s.01$	in $0''.01$	$10^h\,22^m$	+82° 54′	in $0^s.01$	in $0''.01$	$10^h\,22^m$	+82° 54′	in $0^s.01$	in $0''.01$
1	$8^s.27$	$36''.24$	+6	+2	$63^s.53$	$36''.63$	−3	+8	$59^s.58$	$32''.00$	−7	+2	$57^s.22$	$23''.19$	0	−8
2	8.12	36.34	+4	+6	63.38	36.55	−5	+7	59.47	31.77	−6	−2	57.18	22.86	+3	−7
3	7.97	36.43	+1	+8	63.23	36.46	−6	+4	59.36	31.54	−4	−5	57.14	22.52	+5	−5
4	7.82	36.52	−1	+9	63.08	36.37	−6	+1	59.26	31.30	−2	−7	57.11	22.18	+6	−1
5	7.67	36.60	−4	+8	62.94	36.28	−6	−3	59.16	31.06	+1	−8	57.08	21.84	+6	+4
6	7.51	36.67	−6	+6	62.79	36.18	−4	−6	59.06	30.81	+4	−6	57.05	21.50	+4	+8
7	7.36	36.74	−7	+3	62.65	36.07	−1	−7	58.96	30.56	+5	−3	57.02	21.15	+1	+10
8	7.21	36.81	−7	0	62.50	35.96	+2	−7	58.87	30.31	+6	+1	57.00	20.81	−2	+10
9	7.06	36.87	−5	−4	62.36	35.84	+4	−5	58.77	30.05	+5	+6	56.97	20.46	−4	+8
10	6.90	36.92	−3	−6	62.22	35.72	+6	−1	58.68	29.79	+3	+9	56.95	20.11	−6	+4
11	6.75	36.97	0	−7	62.08	35.59	+6	+4	58.59	29.52	0	+11	56.94	19.76	−6	−2
12	6.59	37.01	+3	−6	61.94	35.46	+4	+8	58.50	29.25	−3	+10	56.92	19.41	−5	−7
13	6.44	37.04	+5	−3	61.80	35.32	+1	+11	58.41	28.98	−5	+7	56.91	19.05	−2	−10
14	6.28	37.07	+6	+1	61.67	35.18	−2	+11	58.33	28.70	−6	+2	56.90	18.69	+1	−12
15	6.13	37.09	+5	+6	61.54	35.03	−4	+9	58.26	28.42	−6	−4	56.90	18.34	+4	−11
16	5.97	37.11	+3	+9	61.40	34.88	−6	+5	58.18	28.14	−4	−8	56.89	17.98	+6	−8
17	5.82	37.12	0	+11	61.27	34.72	−6	−1	58.10	27.85	−1	−11	56.89	17.62	+7	−4
18	5.66	37.13	−3	+10	61.14	34.56	−5	−6	58.03	27.56	+2	−12	56.89	17.26	+7	0
19	5.51	37.13	−5	+7	61.01	34.39	−2	−10	57.96	27.27	+5	−10	56.89	16.90	+5	+4
20	5.35	37.13	−6	+2	60.88	34.21	+1	−12	57.88	26.97	+7	−7	56.90	16.54	+3	+7
21	5.20	37.12	−6	−3	60.76	34.03	+4	−12	57.81	26.67	+7	−3	56.91	16.17	0	+9
22	5.04	37.10	−4	−8	60.63	33.85	+6	−10	57.75	26.37	+6	+1	56.92	15.80	−3	+9
23	4.89	37.08	−1	−12	60.50	33.66	+7	−6	57.68	26.07	+4	+5	56.93	15.44	−5	+7
24	4.74	37.05	+2	−13	60.38	33.47	+7	−1	57.62	25.76	+2	+8	56.95	15.07	−6	+5
25	4.59	37.02	+5	−12	60.26	33.27	+6	+3	57.56	25.44	−1	+9	56.97	14.70	−7	+1
26	4.43	36.98	+7	−8	60.14	33.07	+4	+6	57.51	25.13	−3	+8	56.99	14.33	−6	−2
27	4.28	36.94	+7	−4	60.03	32.86	+1	+8	57.45	24.81	−5	+6	*)57.02	13.97	−4	−5
28	4.13	36.89	+7	0	59.91	32.65	−2	+9	57.40	24.49	−6	+3	57.04	13.60	−2	−7
29	3.98	36.83	+5	+4	59.80	32.44	−4	+8	57.35	24.17	−6	0	57.07	13.23	+1	−7
30	3.83	36.77	+3	+7	59.69	32.22	−6	+5	57.30	23.85	−5	−4	57.10	12.86	+4	−5
31	3.68	36.70	0	+9	59.58	32.00	−7	+2	57.26	23.52	−3	−6	57.14	12.49	+5	−2
32	3.53	36.63	−3	+8					57.22	23.19	0	−8	57.17	12.12	+6	+2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 54′ 10″	8.094	+8.032	+82° 54′ 20″	8.097	+8.035	+82° 54′ 30″	8.100	+8.038
20	8.097	+8.035	30	8.100	+8.038	40	8.103	+8.041

$\alpha_{1932.0} = 10^h\,22^m\,57^s.26$ $\delta_{1932.0} = +82°\,54'\,21''.59$

*) Tag der doppelten unteren Kulmination: August 27

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^m.34$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$10^h\,22^m$	82° 54′	0.01^s	0.01″	$10^h\,22^m$	82° 53′	0.01^s	0.01″	$10^h\,23^m$	82° 53′	0.01^s	0.01″	$10^h\,23^m$	82° 53′	0.01^s	0.01″
	s	″			s	″			s	″			s	″		
1	57.17	12.12	+6	+2	59.44	61.26	0	+10	3.91	52.07	−6	−1	9.63	47.10	0	−12
2	57.21	11.75	+5	+6	59.56	60.92	−2	+9	4.08	51.83	−5	−6	9.83	47.02	+3	−13
3	57.26	11.37	+2	+9	59.67	60.59	−5	+7	4.26	51.60	−2	−11	10.03	46.95	+6	−11
4	57.30	11.00	0	+10	59.79	60.25	−6	+2	4.43	51.37	+1	−13	10.24	46.88	+7	−8
5	57.35	10.63	−3	+9	59.91	59.92	−6	−4	4.61	51.15	+4	−12	10.44	46.82	+7	−3
6	57.40	10.26	−5	+5	60.03	59.59	−4	−8	4.79	50.93	+6	−10	10.64	46.76	+6	+1
7	57.45	9.89	−6	0	60.16	59.26	−1	−12	4.97	50.72	+7	−6	10.84	46.71	+5	+5
8	57.50	9.52	−5	−5	60.28	58.93	+2	−13	5.15	50.51	+7	−1	11.04	46.67	+2	+7
9	57.56	9.15	−3	−9	60.41	58.61	+5	−11	5.34	50.30	+6	+3	11.24	46.63	−1	+8
10	57.62	8.78	0	−12	60.54	58.29	+7	−8	5.53	50.10	+3	+6	11.44	46.60	−3	+7
11	57.68	8.41	+3	−12	60.67	57.97	+7	−4	5.71	49.90	+1	+8	11.64	46.58	−5	+5
12	57.74	8.04	+6	−10	60.81	57.65	+6	+1	5.90	49.71	−2	+8	11.84	46.56	−6	+2
13	57.81	7.67	+7	−6	60.95	57.34	+5	+5	6.09	49.53	−4	+7	12.04	46.55	−6	−1
14	57.88	7.31	+7	−2	61.09	57.03	+2	+7	6.28	49.35	−6	+4	12.23	46.54	−5	−4
15	57.95	6.94	+6	+3	61.23	56.73	−1	+9	6.47	49.17	−6	+1	12.43	46.54	−3	−6
16	58.03	6.58	+4	+6	61.37	56.42	−3	+8	6.67	49.00	−6	−2	12.63	46.54	0	−7
17	58.10	6.21	+1	+8	61.51	56.12	−5	+6	6.86	48.84	−4	−5	12.83	46.55	+2	−6
18	58.18	5.85	−2	+9	61.66	55.83	−6	+4	7.05	48.68	−2	−6	13.02	46.57	+4	−4
19	58.26	5.49	−4	+8	61.81	55.54	−6	0	7.25	48.52	+1	−7	13.22	46.59	+5	+1
20	58.35	5.13	−6	+6	61.96	55.25	−5	−3	7.45	48.37	+3	−5	13.42	46.62	+5	+5
21	58.43	4.77	−7	+3	62.11	54.96	−3	−5	7.64	48.23	+5	−2	13.61	46.66	+3	+9
22	58.52	4.41	−6	−1	62.27	54.68	−1	−7	7.84	48.09	+5	+3	13.80	46.70	0	+11
23	58.62	4.05	−5	−4	62.42	54.40	+2	−6	8.04	47.96	+4	+7	13.99	46.75	−3	+12
24	58.71	3.70	−3	−6	62.58	54.13	+4	−4	8.24	47.83	+2	+10	14.18	46.80	−5	+9
25	58.81	3.35	0	−7	62.74	53.86	+5	0	8.43	47.71	−1	+12	14.37	46.86	−7	+5
26	58.91	3.00	+3	−6	62.90	53.59	+5	+4	8.63	47.59	−3	+11	14.55	46.93	−7	−1
27	59.01	2.65	+5	−3	63.07	53.33	+4	+8	8.83	47.48	−6	+7	14.74	47.00	−5	−6
28	59.11	2.30	+6	+1	63.23	53.07	+1	+11	9.03	47.38	−6	+2	14.93	47.08	−2	−10
29	59.22	1.95	+5	+5	63.40	52.81	−1	+11	9.23	47.28	−6	−4	15.11	47.16	+1	−12
30	59.33	1.61	+3	+8	63.57	52.56	−4	+9	9.43	47.19	−3	−9	15.29	47.25	+4	−11
31	59.44	1.26	0	+10	63.74	52.31	−6	+4	9.63	47.10	0	−12	15.47	47.34	+7	−9
32					63.91	52.07	−6	−1					15.65	47.44	+7	−5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 53′ 40″	8.084	+8.022	+82° 53′ 50″	8.087	+8.025	+82° 54′ 10″	8.094	+8.032
50	8.087	+8.025	60	8.091	+8.029	20	8.097	+8.035

$\alpha_{1932.0} = 10^h\,22^m\,57^s.26$ $\delta_{1932.0} = +82°\,54'\,21''.59$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^{m}.40$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$16^{h}\,52^{m}$	+82° 8′	in $0^{s}.01$ | $0''.01$	$16^{h}\,52^{m}$	+82° 8′	in $0^{s}.01$ | $0''.01$	$16^{h}\,52^{m}$	+82° 8′	in $0^{s}.01$ | $0''.01$	$16^{h}\,52^{m}$	+82° 8′	in $0^{s}.01$ | $0''.01$
1	$44^{s}.34$	$49''.99$	+3 −8	$47^{s}.24$	$41''.02$	+1 +9	$51^{s}.55$	$37''.17$	−2 +10	$56^{s}.28$	$39''.08$	−4 −4
2	44.39	49.65	+3 −3	47.37	40.80	−1 +10	51.71	37.14	−3 +8	56.42	39.24	−3 −8
3	44.45	49.31	+3 +2	47.50	40.59	−3 +10	51.87	37.11	−4 +4	56.55	39.41	−1 −10
4	44.51	48.97	+2 +7	47.64	40.38	−4 +7	52.03	37.09	−4 −1	56.69	39.58	0 −11
5	44.57	48.63	0 +10	47.78	40.18	−4 +2	52.19	37.07	−3 −5	56.82	39.76	+2 −9
6	44.63	48.30	−1 +10	47.92	39.99	−4 −2	52.35	37.06	−2 −9	56.95	39.94	+3 −6
7	44.70	47.97	−3 +9	48.05	39.80	−3 −7	52.51	37.06	0 −10	57.08	40.12	+3 −3
8	44.77	47.64	−4 +5	48.19	39.62	−1 −9	52.67	37.06	+1 −10	57.20	40.31	+3 +2
9	44.85	47.32	−4 +1	48.34	39.44	0 −10	52.83	37.07	+2 −8	57.33	40.51	+3 +6
10	44.92	47.00	−3 −4	48.48	39.27	+2 −10	52.98	37.09	+3 −5	57.45	40.71	+2 +9
11	45.00	46.69	−2 −8	48.62	39.10	+3 −7	53.14	37.12	+3 −1	57.57	40.91	+1 +11
12	45.08	46.37	−1 −10	48.77	38.94	+3 −4	53.30	37.15	+3 +4	57.69	41.12	−1 +11
13	45.16	46.06	0 −10	48.91	38.79	+3 +1	53.46	37.19	+2 +7	57.81	41.34	−2 +8
14	45.25	45.76	+2 −9	49.06	38.64	+3 +5	53.61	37.23	+1 +10	57.92	41.56	−2 +4
15	45.34	45.46	+3 −6	49.21	38.50	+2 +9	53.77	37.28	0 +11	58.03	41.78	−2 −1
16	45.43	45.16	+3 −2	49.36	38.37	+1 +11	53.93	37.34	−1 +10	58.14	42.01	−1 −5
17	45.53	44.87	+3 +3	49.51	38.24	−1 +11	54.08	37.40	−2 +7	58.25	42.24	0 −9
18	45.62	44.58	+3 +7	49.66	38.12	−2 +9	54.24	37.47	−2 +3	58.35	42.48	+1 −11
19	45.72	44.30	+2 +10	49.82	38.00	−2 +5	54.39	37.55	−2 −3	58.46	42.72	+3 −10
20	45.83	44.02	0 +11	49.97	37.89	−3 0	54.54	37.63	−1 −7	58.56	42.96	+3 −6
21	45.93	43.74	−1 +10	50.13	37.79	−2 −5	54.70	37.72	0 −10	58.66	43.21	+3 −1
22	46.04	43.47	−2 +8	50.28	37.70	−1 −9	54.85	37.81	+2 −11	58.76	43.46	+3 +4
23	46.15	43.20	−3 +3	50.44	37.61	+1 −11	54.99	37.91	+3 −9	58.86	43.72	+1 +8
24	46.26	42.94	−3 −2	50.60	37.53	+2 −10	55.14	38.02	+3 −5	58.95	43.98	−1 +10
25	46.38	42.68	−2 −7	50.76	37.45	+3 −7	55.29	38.13	+3 +1	59.04	44.24	−2 +10
26	46.50	42.43	0 −10	50.92	37.38	+3 −2	55.43	38.25	+2 +6	59.13	44.51	−4 +7
27	46.62	42.18	+1 −11	51.07	37.32	+3 +3	55.58	38.37	0 +9	59.21	44.79	−4 +3
28	46.74	41.94	+2 −9	51.23	37.26	+1 +7	55.72	38.50	−2 +10	59.29	45.06	−4 −2
29	46.86	41.70	+3 −5	51.39	37.21	0 +10	55.86	38.64	−3 +9	59.37	45.34	−3 −6
30	46.99	41.47	+3 0	51.55	37.17	−2 +10	56.00	38.78	−4 +6	59.45	45.62	−2 −10
31	47.11	41.24	+2 +5				56.14	38.93	−4 +1	59.52	45.90	0 −11
32	47.24	41.02	+1 +9				56.28	39.08	−4 −4			

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 30″	7.314	+7.245	+82° 8′ 40″	7.317	+7.248
40	7.317	+7.248	50	7.319	+7.250

$\alpha_{1932.0} = 16^{h}\ 52^{m}\ 52^{s}.15$ $\delta_{1932.0} = +82°\ 9'\ 7''.24$

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^{m}.40$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$16^{h}\,52^{m}$	$+82°\,8'$	in 0.01^{s}	$0.01''$	$16^{h}\,52^{m}$	$+82°\,8'$	in 0.01^{s}	$0.01''$	$16^{h}\,52^{m}$	$+82°\,9'$	in 0.01^{s}	$0.01''$	$16^{h}\,52^{m}$	$+82°\,9'$	in 0.01^{s}	$0.01''$
1	59.52	45.90	0	−11	60.49	55.53	+3	−2	58.83	4.85	0	+10	54.95	11.41	−3	+2
2	59.60	46.18	+1	−10	60.48	55.85	+3	+3	58.73	5.11	−1	+10	54.80	11.55	−2	−3
3	59.67	46.47	+2	−8	60.46	56.17	+2	+7	58.63	5.37	−2	+8	54.64	11.69	−1	−7
4	59.73	46.76	+3	−4	60.44	56.49	+1	+10	58.53	5.63	−2	+5	54.48	11.83	0	−10
5	59.80	47.05	+3	0	60.42 60.40	56.81 57.13	0 −1	+11 +10	58.43	5.89	−2	0	54.33	11.96	+2	−10
6	59.86	47.35	+3	+4	60.37	57.44	−2	+7	58.33	6.14	−2	−5	54.17	12.09	+3	−8
7	59.91	47.65	+2	+8	60.34	57.76	−2	+3	58.22	6.39	−1	−9	54.01	12.21	+3	−4
8	59.97	47.95	+1	+10	60.31	58.07	−2	−2	58.12	6.64	+1	−11	53.85	12.33	+3	+1
9	60.02	48.25	0	+11	60.27	58.39	−1	−6	58.01	6.88	+2	−10	53.69	12.44	+2	+6
10	60.07	48.56	−1	+9	60.23	58.70	0	−9	57.90	7.12	+3	−7	53.53	12.55	+1	+10
11	60.12	48.86	−2	+6	60.19	59.01	+2	−10	57.79	7.36	+4	−2	53.36	12.66	−1	+11
12	60.17	49.17	−2	+1	60.15	59.32	+3	−9	57.67	7.59	+3	+3	53.19	12.76	−3	+9
13	60.21	49.48	−2	−4	60.11	59.63	+4	−5	57.55	7.82	+2	+8	53.03	12.86	−4	+6
14	60.25	49.79	−1	−8	60.06	59.94	+4	0	57.43	8.04	0	+11	52.86	12.95	−4	+1
15	60.29	50.10	+1	−10	60.00	60.24	+3	+5	57.31	8.26	−2	+11	52.69	13.03	−4	−4
16	60.32	50.41	+2	−10	59.95	60.55	+1	+9	57.18	8.48	−3	+8	52.52	13.11	−2	−8
17	60.35	50.73	+3	−8	59.89	60.85	−1	+11	57.06	8.69	−4	+4	52.35	13.19	−1	−10
18	60.38	51.04	+4	−3	59.83	61.15	−2	+10	56.93	8.90	−4	−1	52.18	13.26	0	−11
19	60.41	51.36	+3	+2	59.77	61.45	−4	+7	56.80	9.10	−3	−6	52.01	13.32	+2	−9
20	60.43	51.68	+2	+7	59.71	61.74	−4	+2	56.67	9.31	−2	−9	51.83	13.38	+3	−6
21	60.45	52.00	0	+10	59.64	62.04	−4	−3	56.54	9.51	0	−11	51.66	13.44	+3	−2
22	60.47	52.32	−2	+11	59.57	62.33	−3	−7	56.40	9.70	+1	−11	51.48	13.49	+3	+2
23	60.49	52.64	−3	+9	59.50	62.62	−2	−10	56.27	9.89	+2	−8	51.31	13.54	+2	+6
24	60.50	52.96	−4	+5	59.42	62.91	0	−11	56.13	10.08	+3	−5	51.13	13.58	+1	+9
25	60.51	53.28	−4	0	59.35	63.19	+1	−10	55.98	10.26	+3	0	50.95	13.61	0	+11
26	60.51	53.60	−4	−5	59.27	63.47	+2	−7	55.84	10.44	+3	+4	50.77	13.64	−1	+10
27	60.52	53.93	−3	−9	59.18	63.75	+3	−3	55.70	10.61	+2	+7	50.60	13.67	−2	+8
28	60.52	54.25	−1	−11	59.10	64.03	+3	+1	55.55	10.78	+1	+10	50.42	13.69	−2	+4
29	60.51	54.57	0	−11	59.01	64.30	+2	+5	55.40	10.94	0	+11	50.24	13.70	−2	−1
30	60.51	54.89	+2	−9	58.92	64.58	+1	+9	55.26	11.10	−1	+9	50.06	13.71	−2	−6
31	60.50	55.21	+3	−6	58.83	64.85	0	+10	55.11	11.26	−2	+6	49.88	13.72	0	−9
32	60.49	55.53	+3	−2					54.95	11.41	−3	+2	49.70	13.72	+1	−11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 40″	7.317	+7.248	+82° 9′ 0″	7.322	+7.253	+82° 9′ 10″	7.324	+7.256
50	7.319	+7.250	10	7.324	+7.256	20	7.327	+7.258

$\alpha_{1932.0} = 16^{h}\ 52^{m}\ 52^{s}.15$ $\delta_{1932.0} = +82°\ 9'\ 7''.24$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$16^h 52^m$	+82° 9′	in $0^s.01$ | $0''.01$	$16^h 52^m$	+82° 9′	in $0^s.01$ | $0''.01$	$16^h 52^m$	+82° 8′	in $0^s.01$ | $0''.01$	$16^h 52^m$	+82° 8′	in $0^s.01$ | $0''.01$
1	49.70	13.72	+1 −11	44.36	11.39	+3 −3	39.74	64.55	−1 +11	37.23	54.78	−4 +4
2	49.52	13.72	+2 −10	44.19	11.24	+3 +2	39.63	64.27	−3 +10	37.19	54.43	−4 −1
3	49.34	13.71	+3 −6	44.02	11.08	+2 +7	39.51	63.98	−4 +6	37.16	54.07	−3 −6
4	49.16	13.69	+3 −1	43.85	10.91	0 +10	39.39	63.68	−4 +2	*)37.12	53.71	−2 −10
5	48.98	13.67	+3 +4	43.69	10.74	−2 +11	39.28	63.39	−4 −3	37.09	53.36	−1 −11
6	48.80	13.65	+1 +8	43.52	10.57	−3 +9	39.17	63.09	−3 −8	37.06	53.00	+1 −11
7	48.62	13.62	0 +10	43.36	10.40	−4 +5	39.05	62.79	−2 −11	37.03	52.64	+2 −8
8	48.44	13.58	−2 +10	43.19	10.22	−4 0	38.94	62.48	0 −11	37.01	52.28	+3 −4
9	48.26	13.54	−3 +7	43.03	10.03	−4 −5	38.84	62.17	+1 −10	36.99	51.91	+3 0
10	48.08	13.50	−4 +3	42.87	9.84	−2 −9	38.74	61.86	+2 −7	36.97	51.55	+2 +4
11	47.90	13.45	−4 −2	42.71	9.64	−1 −11	38.64	61.55	+3 −3	36.96	51.19	+1 +8
12	47.72	13.39	−3 −7	42.55	9.44	+1 −11	38.54	61.23	+3 +2	36.95	50.82	0 +10
13	47.54	13.33	−2 −10	42.39	9.24	+2 −9	38.45	60.91	+2 +6	36.94	50.46	−1 +10
14	47.36	13.27	0 −11	42.24	9.03	+3 −5	38.36	60.59	+1 +9	36.94	50.10	−2 +9
15	47.18	13.20	+1 −10	42.08	8.82	+3 −1	38.27	60.26	0 +10	36.94	49.74	−2 +6
16	47.00	13.12	+2 −7	41.93	8.60	+3 +3	38.19	59.94	−1 +10	36.95	49.38	−2 +2
17	46.82	13.04	+3 −4	41.78	8.38	+2 +7	38.11	59.61	−2 +8	36.95	49.02	−2 −3
18	46.64	12.96	+3 +1	41.63	8.15	+1 +10	38.03	59.28	−2 +5	36.96	48.66	−1 −7
19	46.46	12.87	+3 +5	41.48	7.92	0 +11	37.95	58.94	−2 0	36.98	48.30	+1 −10
20	46.28	12.77	+2 +8	41.34	7.68	−1 +10	37.87	58.61	−1 −4	37.00	47.94	+2 −10
21	46.10	12.67	+1 +10	41.19	7.44	−2 +7	37.80	58.27	0 −8	37.02	47.59	+3 −8
22	45.93	12.56	0 +11	41.05	7.20	−2 +3	37.73	57.92	+1 −10	37.04	47.23	+4 −4
23	45.75	12.45	−2 +9	40.92	6.95	−2 −2	37.67	57.58	+3 −9	37.07	46.88	+4 +1
24	45.58	12.34	−2 +6	40.78	6.70	−1 −6	37.60	57.24	+4 −7	37.10	46.53	+3 +6
25	45.40	12.22	−2 +1	40.64	6.45	0 −9	37.54	56.89	+4 −2	37.13	46.17	+1 +10
26	45.23	12.09	−2 −4	40.51	6.19	+2 −10	37.48	56.54	+3 +3	37.16	45.82	−1 +11
27	45.05	11.96	−1 −8	40.38	5.93	+3 −9	37.42	56.20	+2 +8	37.20	45.48	−2 +10
28	44.88	11.83	+1 −10	40.24	5.66	+4 −5	37.37	55.85	0 +10	37.24	45.13	−4 +6
29	44.70	11.69	+2 −10	40.11	5.39	+4 0	37.32	55.49	−2 +11	37.28	44.78	−4 +1
30	44.53	11.54	+3 −8	39.99	5.11	+3 +5	37.27	55.14	−3 +8	37.33	44.43	−4 −4
31	44.36	11.39	+3 −3	39.86	4.83	+1 +9	37.23	54.78	−4 +4	37.38	44.09	−3 −9
32				39.74	4.55	−1 +11				37.43	43.75	−1 −11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 40″	7.317	+7.248	+82° 9′ 0″	7.322	+7.253	+82° 9′ 10″	7.324	+7.256
50	7.319	+7.250	10	7.324	+7.256	20	7.327	+7.258

$\alpha_{1932.0} = 16^h\ 52^m\ 52^s.15$ $\delta_{1932.0} = +82°\ 9'\ 7''.24$

*) Tag der doppelten unteren Kulmination: Dez. 4

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^m.44$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$17^h 53^m$	+86° 36′	in 0.01s 0.01″	$17^h 53^m$	+86° 36′	in 0.01s 0.01″	$17^h 53^m$	+86° 36′	in 0.01s 0.01″	$17^h 54^m$	+86° 36′	in 0.01s 0.01″
1	46.39	35.37	+ 6 −10	49.90	25.59	+ 5 + 8	58.14	19.87	− 2 +11	9.01	19.32	−12 − 1
2	46.40	35.03	+ 8 − 6	50.12	25.32	+ 1 +10	58.48	19.76	− 7 +10	9.36	19.40	−10 − 5
3	46.41	34.68	+ 9 0	50.34	25.06	− 4 +11	58.82	19.65	−10 + 7	9.70	19.49	− 7 − 8
4	46.43	34.34	+ 8 + 5	50.57	24.80	− 8 + 9	59.16	19.55	−11 + 2	10.03	19.59	− 3 −10
5	46.46	34.00	+ 4 + 9	50.81	24.54	−10 + 5	59.51	19.45	−11 − 2	10.37	19.69	+ 1 −10
6	46.50	33.66	0 +11	51.05	24.29	−11 0	59.86	19.36	− 9 − 7	10.70	19.80	+ 5 − 8
7	46.54	33.32	− 5 +10	51.29	24.05	−10 − 4	60.20	19.28	− 5 − 9	11.02	19.91	+ 8 − 5
8	46.59	32.98	− 9 + 8	51.54	23.81	− 7 − 8	60.55	19.20	− 1 −10	11.35	20.03	+10 − 1
9	46.65	32.65	−11 + 3	51.80	23.57	− 3 −10	60.90	19.13	+ 3 − 9	11.67	20.15	+10 + 4
10	46.71	32.31	−11 − 1	52.06	23.34	+ 1 −10	61.25	19.07	+ 7 − 7	11.99	20.28	+ 8 + 7
11	46.78	31.98	− 9 − 6	52.32	23.12	+ 5 − 9	61.60	19.02	+ 9 − 3	12.31	20.42	+ 5 +10
12	46.86	31.65	− 6 − 9	52.59	22.90	+ 8 − 6	61.96	18.97	+10 + 1	12.63	20.56	+ 2 +11
13	46.95	31.32	− 2 −10	52.87	22.68	+10 − 2	62.31	18.92	+10 + 5	12.94	20.71	− 2 + 9
14	47.05	30.99	+ 2 −10	53.15	22.47	+10 + 2	62.66	18.89	+ 8 + 8	13.25	20.86	− 5 + 6
15	47.15	30.67	+ 6 − 8	53.44	22.26	+ 9 + 6	63.02	18.86	+ 4 +10	13.56	21.02	− 6 + 1
16	47.26	30.35	+ 9 − 4	53.73	22.06	+ 6 + 9	63.38	18.83	+ 1 +10	13.86	21.18	− 6 − 4
17	47.38	30.03	+10 0	54.02	21.87	+ 3 +11	63.73	18.81	− 3 + 8	14.16	21.35	− 4 − 8
18	47.50	29.71	+10 + 4	54.32	21.68	− 1 +10	64.09	18.80	− 6 + 4	14.45	21.52	0 −11
19	47.63	29.40	+ 8 + 8	54.62	21.50	− 5 + 7	64.45	18.80	− 7 − 1	14.74	21.70	+ 4 −11
20	47.77	29.09	+ 5 +10	54.92	21.32	− 7 + 2	64.80	18.80	− 6 − 6	15.03	21.88	+ 7 − 8
21	47.91	28.78	+ 1 +11	55.23	21.15	− 8 − 3	65.16	18.81	− 3 −10	15.31	22.07	+ 9 − 4
22	48.06	28.47	− 3 + 9	55.54	20.98	− 6 − 8	65.52	18.82	+ 1 −11	15.59	22.26	+ 8 + 2
23	48.22	28.17	− 7 + 5	55.85	20.82	− 2 −11	65.87	18.84	+ 5 −10	15.86	22.46	+ 6 + 7
24	48.38	27.87	− 8 0	56.17	20.67	+ 2 −11	66.23	18.87	+ 7 − 7	16.13	22.66	+ 1 +10
25	48.55	27.57	− 7 − 5	56.49	20.52	+ 5 − 9	66.58	18.91	+ 8 − 1	16.40	22.87	− 3 +11
26	48.73	27.28	− 5 − 9	56.82	20.38	+ 8 − 5	66.94	18.95	+ 7 + 4	16.66	23.08	− 8 +10
27	48.91	26.99	− 1 −11	57.14	20.24	+ 8 + 1	67.29	19.00	+ 4 + 8	16.91	23.29	−11 + 6
28	49.10	26.70	+ 3 −11	57.47	20.11	+ 6 + 6	67.63	19.05	− 1 +11	17.16	23.51	−13 + 1
29	49.29	26.42	+ 7 − 7	57.81	19.99	+ 2 +10	67.98	19.11	− 5 +11	17.41	23.73	−12 − 4
30	49.49	26.14	+ 9 − 3	58.14	19.87	− 2 +11	68.33	19.18	− 9 + 8	17.65	23.96	− 9 − 8
31	49.69	25.87	+ 8 + 3				68.67	19.25	−12 + 4	17.88	24.19	− 5 −10
32	49.90	25.59	+ 5 + 8				69.01	19.32	−12 − 1			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 10″	16.875	+16.846	+86° 36′ 20″	16.889	+16.860	+86° 36′ 30″	16.903	+16.873
20	16.889	+16.860	30	16.903	+16.873	40	16.917	+16.887

$\alpha_{1932.0} = 17^h\ 54^m\ 8^s.91$ $\delta_{1932.0} = +86°\ 36'\ 47''.78$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^m.44$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder	
	$17^h\,54^m$	+86° 36′	in 0.01ˢ	in 0.01″	$17^h\,54^m$	+86° 36′	in 0.01ˢ	in 0.01″
1	17.88ˢ	24.19″	− 5	−10	22.39ˢ	32.97″	+ 8	− 4
2	18.11	24.43	− 1	−10	22.43	33.28	+ 9	+ 1
3	18.34	24.67	+ 3	− 9	22.47	33.60	+ 9	+ 5
4	18.56	24.92	+ 7	− 6	22.51	33.92	+ 7	+ 8
5	18.78	25.17	+ 9	− 2	22.54	34.24	+ 4	+10
6	18.99	25.42	+ 9	+ 2	22.56	34.56	0	+10
7	19.19	25.67	+ 8	+ 6	22.57	34.88	− 3	+ 8
8	19.39	25.93	+ 6	+ 9	22.58	35.20	− 6	+ 5
9	19.58	26.20	+ 3	+10	22.58	35.52	− 7	0
10	19.77	26.46	− 1	+10	22.58	35.84	− 6	− 5
11	19.95	26.73	− 4	+ 7	22.57	36.16	− 3	− 9
12	20.13	27.00	− 6	+ 3	22.55	36.48	+ 1	−11
13	20.30	27.28	− 6	− 2	22.52	36.80	+ 5	−10
14	20.46	27.56	− 5	− 7	22.49	37.12	+ 9	− 7
15	20.62	27.84	− 1	−10	22.46	37.44	+10	− 3
16	20.77	28.12	+ 3	−11	22.41	37.77	+10	+ 3
17	20.92	28.41	+ 7	−10	22.36	38.09	+ 7	+ 8
18	21.06	28.70	+ 9	− 6	22.31	38.41	+ 2	+11
19	21.19	28.99	+10	0	22.25	38.73	− 3	+11
20	21.32	29.29	+ 8	+ 5	{22.18 22.10	39.05 39.37	− 8 −11	+ 9} + 5}
21	21.44	29.58	+ 4	+ 9	22.02	39.69	−12	0
22	21.56	29.88	− 1	+11	21.93	40.01	−11	− 5
23	21.67	30.18	− 6	+11	21.83	40.33	− 8	− 8
24	21.78	30.49	−10	+ 8	21.73	40.64	− 4	−10
25	21.88	30.80	−12	+ 3	21.62	40.96	0	−10
26	21.97	31.10	−12	− 2	21.51	41.27	+ 4	− 8
27	22.06	31.41	−10	− 6	21.39	41.58	+ 7	− 5
28	22.14	31.72	− 7	− 9	21.26	41.90	+ 9	− 1
29	22.21	32.03	− 3	−10	21.13	42.21	+ 9	+ 3
30	22.27	32.34	+ 2	−10	20.99	42.51	+ 7	+ 7
31	22.33	32.66	+ 5	− 7	20.85	42.82	+ 5	+ 9
32	22.39	32.97	+ 8	− 4				

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$17^h\,54^m$	+86° 36′	in 0.01ˢ	in 0.01″	$17^h\,54^m$	+86° 36′	in 0.01ˢ	in 0.01″
1	20.85ˢ	42.82″	+ 5	+ 9	13.61ˢ	51.21″	− 7	+ 4
2	20.70	43.13	+ 1	+10	13.30	51.43	− 7	− 1
3	20.54	43.44	− 2	+ 9	12.98	51.65	− 6	− 6
4	20.38	43.74	− 5	+ 6	12.66	51.87	− 3	−10
5	20.21	44.03	− 7	+ 2	12.33	52.08	+ 1	−11
6	20.04	44.33	− 7	− 3	12.00	52.28	+ 5	−10
7	19.86	44.63	− 5	− 8	11.66	52.49	+ 8	− 7
8	19.68	44.92	− 1	−11	11.32	52.69	+10	− 2
9	19.49	45.21	+ 3	−11	10.98	52.89	+ 9	+ 4
10	19.29	45.51	+ 7	− 9	10.63	53.08	+ 6	+ 8
11	19.09	45.80	+10	− 5	10.28	53.27	+ 1	+11
12	18.88	46.08	+10	+ 1	9.93	53.46	− 4	+11
13	18.66	46.36	+ 8	+ 6	9.57	53.64	− 8	+ 8
14	18.44	46.64	+ 4	+10	9.21	53.82	−11	+ 4
15	18.22	46.92	− 1	+11	8.84	53.99	−11	− 1
16	17.99	47.20	− 6	+10	8.47	54.16	−10	− 6
17	17.75	47.47	−10	+ 7	8.10	54.32	− 7	− 9
18	17.51	47.74	−11	+ 2	7.73	54.48	− 3	−10
19	17.26	48.01	−11	− 3	7.35	54.64	+ 1	−10
20	17.01	48.27	− 9	− 7	6.97	54.79	+ 5	− 8
21	16.75	48.53	− 5	−10	6.58	54.94	+ 8	− 4
22	16.49	48.79	− 1	−10	6.19	55.08	+ 9	0
23	16.22	49.05	+ 3	− 9	5.80	55.22	+ 9	+ 4
24	15.95	49.30	+ 6	− 6	5.41	55.35	+ 7	+ 8
25	15.68	49.55	+ 8	− 3	5.01	55.48	+ 4	+10
26	15.40	49.80	+ 9	+ 2	4.61	55.61	+ 1	+10
27	15.11	50.04	+ 8	+ 6	4.21	55.73	− 3	+ 9
28	14.82	50.28	+ 6	+ 9	3.81	55.85	− 5	+ 5
29	14.53	50.52	+ 3	+10	3.40	55.96	− 7	+ 1
30	14.23	50.75	− 1	+10	2.99	56.07	− 7	− 4
31	13.92	50.98	− 4	+ 8	2.58	56.17	− 4	− 8
32	13.61	51.21	− 7	+ 4	2.17	56.27	− 1	−11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 20″	16.889	+16.860	+86° 36′ 30″	16.903	+16.873	+86° 36′ 50″	16.931	+16.901
30	16.903	+16.873	40	16.917	+16.887	60	16.945	+16.915

$\alpha_{1932.0} = 17^h\ 54^m\ 8^s.91$ $\delta_{1932.0} = +86°\ 36'\ 47''.78$

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^m.44$

Tag	September AR.	Dekl.	☾ Glieder		Oktober AR.	Dekl.	☾ Glieder		November AR.	Dekl.	☾ Glieder		Dezember AR.	Dekl.	☾ Glieder	
	$17^h 53^m$	+86° 36′	in $0^s.01$	$0''.01$	$17^h 53^m$	+86° 36′	in $0^s.01$	$0''.01$	$17^h 53^m$	+86° 36′	in $0^s.01$	$0''.01$	$17^h 53^m$	+86° 36′	in $0^s.01$	$0''.01$
1	$62^s.17$	$56''.27$	−1	−11	$49^s.25$	$56''.96$	+9	−6	$36^s.66$	$53''.05$	+1	+11	$27^s.91$	$45''.32$	−10	+7
2	61.75	56.36	+3	−11	48.82	56.91	+9	0	36.30	52.85	−4	+11	27.70	45.01	−12	+2
3	61.34	56.45	+7	−8	48.39	56.85	+8	+5	35.94	52.64	−9	+9	27.50	44.70	−12	−3
4	60.92	56.54	+9	−4	47.96	56.79	+4	+9	35.59	52.43	−12	+5	27.31	44.38	−10	−8
5	60.50	56.62	+9	+2	47.53	56.72	−1	+11	35.24	52.22	−13	0	27.13	44.07	−6	−10
6	60.08	56.69	+6	+7	47.10	56.65	−6	+11	34.90	52.00	−11	−5	26.95	43.75	−2	−11
7	59.65	56.76	+2	+10	46.68	56.57	−10	+8	34.56	51.78	−8	−9	26.77	43.43	+2	−9
8	59.23	56.83	−2	+11	46.25	56.49	−12	+3	34.22	51.55	−4	−11	26.61	43.11	+5	−6
9	58.80	56.89	−7	+9	45.82	56.40	−12	−2	33.89	51.32	0	−10	26.45	42.79	+7	−2
10	58.37	56.94	−10	+6	45.40	56.31	−10	−7	33.56	51.08	+4	−8	26.30	42.46	+8	+2
11	57.94	56.99	−12	+1	44.98	56.21	−6	−10	33.24	50.84	+7	−5	26.16	42.13	+7	+6
12	57.51	57.04	−11	−4	44.56	56.11	−2	−11	32.92	50.60	+8	0	26.02	41.81	+5	+9
13	57.09	57.08	−8	−8	44.14	56.00	+2	−9	32.61	50.35	+8	+4	25.89	41.48	+2	+10
14	56.66	57.11	−4	−10	43.73	55.89	+6	−7	32.30	50.10	+7	+7	25.77	41.14	−1	+10
15	56.22	57.14	0	−10	43.31	55.77	+8	−3	32.00	49.85	+4	+10	25.65	40.81	−4	+7
16	55.79	57.17	+4	−9	42.90	55.65	+9	+1	31.70	49.59	+1	+10	25.54	40.48	−6	+3
17	55.36	57.19	+7	−6	42.49	55.52	+8	+5	31.41	49.33	−2	+9	25.44	40.14	−6	−1
18	54.92	57.20	+9	−1	42.08	55.39	+6	+8	31.12	49.07	−5	+6	25.34	39.81	−5	−6
19	54.49	57.21	+9	+3	41.67	55.25	+3	+10	30.84	48.80	−6	+2	*)25.25	39.47	−2	−10
20	54.05	57.22	+8	+7	41.27	55.11	0	+10	30.56	48.53	−6	−3	25.17	39.13	+2	−11
21	53.61	57.22	+6	+9	40.87	54.96	−3	+8	30.29	48.26	−3	−8	25.10	38.79	+7	−10
22	53.18	57.22	+2	+10	40.47	54.81	−5	+4	30.03	47.98	0	−10	25.03	38.45	+10	−6
23	52.74	57.21	−1	+10	40.08	54.65	−6	0	29.77	47.69	+4	−11	24.97	38.11	+11	−1
24	52.30	57.20	−4	+7	39.69	54.49	−5	−5	29.52	47.41	+8	−9	24.92	37.77	+10	+4
25	51.87	57.18	−6	+3	39.30	54.33	−2	−9	29.27	47.12	+10	−5	24.88	37.43	+7	+9
26	51.43	57.16	−6	−2	38.92	54.16	+1	−11	29.03	46.83	+10	+1	24.84	37.09	+2	+11
27	50.99	57.13	−5	−7	38.53	53.99	+5	−10	28.79	46.53	+8	+6	24.80	36.74	−4	+11
28	50.56	57.09	−2	−10	38.15	53.81	+8	−7	28.56	46.23	+4	+10	24.78	36.40	−8	+8
29	50.12	57.05	+2	−11	37.77	53.63	+10	−3	28.34	45.93	−1	+11	24.76	36.06	−11	+4
30	49.69	57.01	+6	−10	37.40	53.44	+9	+3	28.12	45.62	−6	+10	24.75	35.71	−12	−1
31	49.25	56.96	+9	−6	37.03	53.25	+6	+8	27.91	45.32	−10	+7	24.75	35.37	−11	−6
32					36.66	53.05	+1	+11					24.76	35.03	−8	−9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 30″	16.903	+16.873	+86° 36′ 40″	16.917	+16.887	+86° 36′ 50″	16.931	+16.901
40	16.917	+16.887	50	16.931	+16.901	60	16.945	+16.915

$\alpha_{1932.0} = 17^h\ 54^m\ 8^s.91$ $\delta_{1932.0} = +86°\ 36'\ 47''.78$

*) Tag der doppelten unteren Kulmination: Dez. 19

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^{m}.55$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$18^{h}\ 42^{m}$	+ 89° 1'	in 0.01^{s} $0.01''$	$18^{h}\ 42^{m}$	+ 89° 1'	in 0.01^{s} $0.01''$	$18^{h}\ 43^{m}$	+ 89° 1'	in 0.01^{s} $0.01''$	$18^{h}\ 43^{m}$	+ 89° 1'	in 0.01^{s} $0.01''$
1	$48^{s}.28$	$64''.17$	+13 −11	51.49	54.17	+27 +6	14.38	47.14	+1 +11	50.51	44.60	−46 +2
2	*)48.02	63.85	+28 −7	51.99	53.87	+13 +10	15.42	46.97	−17 +11	51.73	44.62	−44 −3
3	47.76	63.52	+35 −2	52.52	53.58	−4 +11	16.48	46.80	−32 +9	52.94	44.64	−34 −7
4	47.53	63.18	+34 +3	53.07	53.29	−22 +10	17.54	46.64	−42 +5	54.15	44.67	−20 −10
5	47.32	62.85	+23 +8	53.64	53.00	−35 +7	18.62	46.49	−44 0	55.36	44.71	−3 −10
6	47.14	62.52	+7 +11	54.24	52.72	−42 +3	19.71	46.34	−39 −5	56.56	44.75	+13 −9
7	46.98	62.19	−11 +11	54.85	52.44	−42 −2	20.82	46.20	−27 −8	57.76	44.80	+27 −6
8	46.85	61.85	−28 +9	55.49	52.16	−34 −6	21.93	46.06	−12 −10	58.95	44.85	+37 −3
9	46.75	61.52	−39 +6	56.15	51.89	−22 −9	23.06	45.93	+4 −10	60.14	44.91	+40 +2
10	46.67	61.19	−43 +1	56.83	51.62	−6 −10	24.19	45.81	+20 −8	61.33	44.97	+38 +6
11	46.62	60.86	−40 −4	57.53	51.35	+11 −9	25.33	45.69	+32 −5	62.51	45.04	+29 +8
12	46.60	60.53	−30 −7	58.26	51.09	+25 −7	26.48	45.58	+40 −1	63.68	45.12	+17 +10
13	46.60	60.20	−16 −9	59.00	50.83	+36 −4	27.63	45.47	+41 +3	64.85	45.20	+1 +9
14	46.63	59.87	0 −10	59.76	50.58	+41 0	28.80	45.37	+36 +7	66.01	45.29	−13 +6
15	46.68	59.54	+16 −9	60.54	50.33	+40 +4	29.97	45.27	+26 +9	67.16	45.38	−23 +2
16	46.76	59.21	+30 −6	61.35	50.08	+32 +8	31.15	45.18	+11 +10	68.31	45.48	−26 −3
17	46.87	58.88	+39 −2	62.17	49.84	+19 +10	32.34	45.10	−5 +9	69.44	45.59	−21 −7
18	47.00	58.56	+41 +2	63.00	49.60	+3 +10	33.53	45.02	−19 +5	70.57	45.70	−10 −11
19	47.16	58.23	+37 +6	63.86	49.37	−14 +8	34.73	44.95	−27 0	71.69	45.82	+6 −11
20	47.35	57.91	+27 +9	64.74	49.14	−26 +3	35.93	44.89	−28 −5	72.80	45.94	+21 −9
21	47.56	57.59	+11 +10	65.63	48.92	−31 −2	37.14	44.83	−20 −9	73.89	46.07	+32 −5
22	47.79	57.26	−6 +9	66.54	48.70	−29 −6	38.34	44.78	−7 −11	74.98	46.20	+34 0
23	48.05	56.94	−21 +6	67.47	48.49	−18 −10	39.55	44.73	+9 −11	76.05	46.34	+28 +6
24	48.33	56.63	−31 +2	68.41	48.28	−3 −11	40.77	44.69	+23 −8	77.12	46.49	+14 +10
25	48.64	56.31	−33 −4	69.37	48.08	+13 −10	41.98	44.66	+31 −3	78.17	46.64	−4 +12
26	48.97	56.00	−26 −8	70.34	47.88	+26 −6	43.20	44.63	+31 +2	79.22	46.79	−23 +11
27	49.33	55.69	−13 −11	71.33	47.69	+32 −1	44.42	44.61	+22 +7	80.25	46.95	−38 +8
28	49.71	55.38	+4 −11	72.33	47.50	+29 +5	45.64	44.60	+6 +11	81.26	47.12	−47 +4
29	50.12	55.07	+20 −9	73.35	47.32	+17 +9	46.86	44.59	−12 +12	82.27	47.29	−47 −1
30	50.55	54.77	+31 −4	74.38	47.14	+1 +11	48.08	44.59	−29 +10	83.26	47.47	−40 −5
31	51.01	54.47	+34 +1				49.30	44.59	−41 +7	84.24	47.65	−27 −8
32	51.49	54.17	+27 +6				50.51	44.60	−46 +2			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 1' 40"	58.936	+58.927	+89° 1' 50"	59.104	+59.096	+89° 2' 0"	59.274	+59.266
50	59.104	+59.096	60	59.274	+59.266	10	59.445	+59.437

$\alpha_{1932.0} = 18^{h}\ 44^{m}\ 16^{s}.10$ $\delta_{1932.0} = +89°\ 2'\ 11''.97$

*) Tag der doppelten unteren Kulmination: Jan. 2

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^m.55$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$18^h 44^m$	+89° 1′	in 0.01ˢ 0.01″	$18^h 44^m$	+89° 1′	in 0.01ˢ 0.01″	$18^h 44^m$	+89° 2′	in 0.01ˢ 0.01″	$18^h 43^m$	+89° 2′	in 0.01ˢ 0.01″
1	24ˢ.24	47″.65	−27 − 8	46ˢ.16	55″.28	+27 − 5	48ˢ.56	4″.78	+34 + 5	89ˢ.67	14″.61	−22 + 5
2	25.20	47.84	−11 −10	46.56	55.57	+35 − 1	48.30	5.10	+26 + 8	88.76	14.88	−29 0
3	26.15	48.03	+ 5 − 9	46.94	55.87	+37 + 3	48.01 47.70	5.43 5.75	+14 +10 − 1 + 9	87.82	15.16	−29 − 5
4	27.09	48.22	+21 − 7	47.30	56.17	+33 + 7	47.38	6.07	−15 + 7	86.87	15.43	−21 − 9
5	28.01	48.42	+32 − 4	47.63	56.47	+23 + 9	47.03	6.40	−26 + 3	85.91	15.69	− 6 −11
6	28.91	48.62	+38 0	47.94	56.78	+ 9 +10	46.65	6.72	−30 − 2	84.92	15.96	+11 −11
7	29.80	48.83	+37 + 4	48.23	57.08	− 6 + 9	46.26	7.04	−25 − 6	83.92	16.23	+26 − 8
8	30.67	49.04	+31 + 7	48.50	57.39	−19 + 6	45.84	7.36	−14 −10	82.90	16.49	+36 − 3
9	31.52	49.26	+20 +10	48.75	57.70	−27 + 1	45.41	7.68	+ 2 −11	81.86	16.75	+36 + 2
10	32.36	49.48	+ 5 +10	48.97	58.01	−27 − 4	44.95	7.99	+20 −10	80.81	17.00	+28 + 7
11	33.18	49.71	− 9 + 8	49.17	58.33	−20 − 8	44.46	8.31	+33 − 6	79.74	17.25	+13 +11
12	33.98	49.94	−21 + 4	49.35	58.64	− 6 −11	43.96	8.63	+39 − 1	78.65	17.50	− 6 +12
13	34.77	50.17	−26 − 1	49.51	58.96	+11 −11	43.43	8.95	+36 + 4	77.55	17.74	−25 +10
14	35.54	50.41	−24 − 6	49.65	59.28	+27 − 9	42.89	9.26	+24 + 9	76.43	17.98	−38 + 6
15	36.29	50.65	−14 −10	49.76	59.60	+38 − 4	42.32	9.58	+ 6 +11	75.30	18.22	−44 + 1
16	37.03	50.90	+ 1 −12	49.86	59.92	+39 + 1	41.74	9.89	−14 +11	74.15	18.45	−42 − 3
17	37.74	51.15	+18 −11	49.93	60.24	+31 + 6	41.13	10.20	−31 + 9	72.99	18.68	−33 − 7
18	38.44	51.40	+31 − 8	49.98	60.56	+16 +10	40.50	10.51	−42 + 4	71.81	18.91	−19 −10
19	39.12	51.66	+37 − 2	50.00	60.88	− 4 +12	39.86	10.81	−45 − 1	70.62	19.13	− 3 −10
20	39.78	51.92	+35 + 3	50.01	61.20	−23 +11	39.20	11.12	−41 − 5	69.42	19.35	+13 − 8
21	40.43	52.18	+23 + 8	49.99	61.53	−38 + 7	38.51	11.42	−29 − 8	68.20	19.56	+26 − 6
22	41.05	52.45	+ 6 +11	49.94	61.85	−46 + 3	37.80	11.72	−14 −10	66.97	19.77	+34 − 2
23	41.66	52.72	−14 +12	49.88	62.17	−46 − 2	37.07	12.02	+ 3 −10	65.72	19.98	+37 + 2
24	42.24	52.99	−32 +10	49.79	62.50	−38 − 6	36.33	12.31	+18 − 8	64.46	20.19	+34 + 6
25	42.80	53.27	−44 + 6	49.68	62.82	−25 − 9	35.56	12.61	+29 − 4	63.19	20.39	+25 + 9
26	43.34	53.55	−48 + 1	49.55	63.15	− 8 −10	34.78	12.90	+35 0	61.90	20.59	+12 +10
27	43.87	53.83	−45 − 4	49.40	63.47	+ 8 − 9	33.97	13.19	+36 + 4	60.60	20.78	− 3 + 9
28	44.37	54.11	−34 − 7	49.22	63.80	+22 − 7	33.15	13.48	+30 + 7	59.29	20.97	−17 + 6
29	44.85	54.40	−19 −10	49.02	64.13	+32 − 3	32.30	13.76	+19 + 9	57.97	21.16	−26 + 2
30	45.31	54.69	− 2 −10	48.80	64.45	+36 + 1	31.44	14.05	+ 5 +10	56.64	21.34	−29 − 3
31	45.75	54.98	+14 − 8	48.56	64.78	+34 + 5	30.57	14.33	−10 + 8	55.29	21.52	−24 − 7
32	46.16	55.28	+27 − 5				29.67	14.61	−22 + 5	53.93	21.69	−12 −10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 1′ 40″	58.936	+58.927	+89° 2′ 0″	59.274	+59.266	+89° 2′ 20″	59.617	+59.608
50	59.104	+59.096	10	59.445	+59.437	30	59.790	+59.781

$\alpha_{1932.0} = 18^h\ 44^m\ 16^s.10$ $\delta_{1932.0} = +89°\ 2'\ 11''.97$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^m.55$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h 43^m$	$+89° 2'$	in 0.01^s	in $0.01''$	$18^h 42^m$	$+89° 2'$	in 0.01^s	in $0.01''$	$18^h 41^m$	$+89° 2'$	in 0.01^s	in $0.01''$	$18^h 41^m$	$+89° 2'$	in 0.01^s	in $0.01''$
1	$53^s.93$	$21''.69$	−12	−10	$69^s.56$	$24''.84$	+28	−7	$82^s.38$	$23''.48$	+14	+10	$45^s.17$	$17''.74$	−35	+9
2	52.57	21.86	+4	−11	68.01	24.87	+35	−2	80.95	23.36	−6	+12	44.18	17.48	−47	+4
3	51.19	22.03	+20	−9	66.45	24.90	+33	+3	79.53	23.23	−26	+11	43.22	17.22	−50	−1
4	49.81	22.19	+31	−5	64.90	24.92	+22	+8	78.12	23.10	−41	+7	42.27	16.96	−44	−5
5	48.41	22.35	+35	0	63.35	24.94	+5	+11	76.72	22.96	−49	+3	41.35	16.69	−32	−9
6	47.00	22.50	+30	+5	61.79	24.95	−14	+12	75.33	22.82	−48	−3	40.44	16.42	−16	−10
7	45.59	22.65	+18	+10	60.24	24.96	−32	+10	73.95	22.67	−39	−7	39.56	16.15	+1	−9
8	44.16	22.79	−1	+12	58.68	24.96	−44	+5	72.58	22.52	−25	−9	38.71	15.87	+16	−7
9	42.73	22.93	−20	+11	57.13	24.96	−48	0	71.23	22.36	−8	−10	37.87	15.59	+27	−3
10	41.29	23.07	−35	+8	55.57	24.95	−44	−4	69.89	22.19	+9	−9	37.06	15.30	+32	+1
11	39.84	23.20	−44	+3	54.02	24.93	−32	−8	68.56	22.02	+22	−6	36.26	15.02	+32	+4
12	38.38	23.33	−45	−2	52.47	24.91	−16	−10	67.24	21.85	+31	−2	35.49	14.73	+25	+8
13	36.92	23.45	−38	−6	50.92	24.89	0	−10	65.94	21.67	+34	+2	34.75	14.43	+15	+9
14	35.44	23.57	−25	−9	49.37	24.86	+16	−8	64.65	21.49	+32	+6	34.02	14.14	+2	+10
15	33.96	23.68	−9	−10	47.83	24.83	+28	−4	63.38	21.30	+24	+9	33.32	13.84	−11	+8
16	32.47	23.79	+8	−9	46.29	24.79	+35	0	62.12	21.11	+12	+10	32.64	13.54	−21	+4
17	30.98	23.89	+22	−7	44.75	24.75	+36	+3	60.87	20.91	−1	+9	31.98	13.24	−26	0
18	29.48	23.99	+32	−3	43.22	24.70	+31	+7	59.64	20.71	−13	+7	31.35	12.94	−24	−5
19	27.97	24.08	+37	+1	41.69	24.65	+22	+9	58.42	20.51	−22	+2	30.74	12.63	−15	−9
20	26.46	24.17	+36	+5	40.17	24.59	+9	+10	57.22	20.30	−24	−2	30.16	12.32	0	−11
21	24.94	24.25	+29	+8	38.65	24.53	−5	+8	56.04	20.09	−20	−7	29.60	12.01	+17	−11
22	23.42	24.33	+18	+10	37.14	24.46	−16	+5	54.87	19.87	−8	−10	29.07	11.70	+32	−8
23	21.90	24.41	+4	+10	35.63	24.39	−23	+1	53.72	19.65	+7	−11	28.56	11.39	+42	−4
24	20.37	24.48	−10	+8	34.13	24.31	−24	−4	52.59	19.43	+23	−10	28.07	11.07	+42	+2
25	18.84	24.55	−21	+4	32.63	24.22	−17	−8	51.48	19.20	+36	−7	27.61	10.75	+33	+7
26	17.30	24.61	−26	−1	31.14	24.13	−4	−11	50.38	18.97	+41	−1	27.17	10.43	+16	+11
27	15.75	24.67	−24	−6	29.66	24.03	+12	−11	49.30	18.73	+37	+4	26.76	10.11	−5	+11
28	14.21	24.72	−15	−10	28.19	23.93	+26	−9	48.24	18.49	+24	+8	26.38	9.79	−25	+10
29	12.66	24.77	−1	−11	26.73	23.83	+36	−5	47.20	18.24	+5	+11	26.02	9.46	−40	+6
30	11.11	24.81	+15	−10	25.27	23.72	+37	+1	46.17	17.99	−16	+11	25.69	9.13	−48	+1
31	9.56	24.84	+28	−7	23.82	23.60	+29	+6	45.17	17.74	−35	+9	25.38	8.81	−46	−4
32					22.38	23.48	+14	+10					*)25.10	8.48	−37	−8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 0″	59.274	+59.266	+89° 2′ 10″	59.445	+59.437	+89° 2′ 20″	59.617	+59.608
10	59.445	+59.437	20	59.617	+59.608	30	59.790	+59.781

$\alpha_{1932.0} = 18^h\ 44^m\ 16^s.10 \qquad \delta_{1932.0} = +89°\ 2'\ 11''.97$

*) Tag der doppelten unteren Kulmination: Dez. 32

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
	$20^h 47^m$	+82° 16′	in 0.01 s	in 0.01″	$20^h 47^m$	+82° 16′	in 0.01 s	in 0.01″
1	26.10	56.16	−2	−11	24.23	46.82	+4	+2
2	26.00	55.90	0	−10	*)24.22	46.49	+4	+7
3	25.90	55.64	+2	−6	24.21	46.17	+3	+11
4	25.80	55.37	+3	−1	24.20	45.84	+1	+12
5	25.71	55.10	+4	+4	24.19	45.51	−1	+11
6	25.62	54.83	+3	+9	24.19	45.19	−2	+8
7	25.53	54.55	+2	+11	24.20	44.86	−4	+4
8	25.44	54.27	+1	+12	24.20	44.53	−4	−1
9	25.36	53.98	−1	+10	24.21	44.21	−4	−5
10	25.28	53.70	−3	+6	24.22	43.88	−3	−8
11	25.20	53.41	−4	+2	24.24	43.55	−2	−10
12	25.12	53.12	−4	−3	24.26	43.23	0	−10
13	25.05	52.83	−4	−6	24.28	42.90	+2	−8
14	24.98	52.53	−3	−9	24.31	42.58	+3	−5
15	24.91	52.23	−1	−10	24.34	42.25	+4	−1
16	24.85	51.93	0	−9	24.37	41.93	+4	+3
17	24.79	51.62	+2	−7	24.41	41.62	+4	+6
18	24.73	51.31	+4	−3	24.45	41.30	+3	+8
19	24.67	51.00	+4	0	24.49	40.98	+1	+8
20	24.62	50.69	+4	+5	24.54	40.67	−1	+6
21	24.57	50.37	+4	+7	24.58	40.36	−3	+2
22	24.52	50.06	+2	+9	24.63	40.04	−4	−2
23	24.48	49.74	0	+8	24.68	39.73	−4	−6
24	24.44	49.42	−2	+5	24.74	39.43	−3	−10
25	24.40	49.10	−3	+1	24.80	39.13	−2	−10
26	24.37	48.78	−4	−4	24.86	38.83	0	−9
27	24.34	48.45	−4	−8	24.93	38.53	+2	−4
28	24.31	48.13	−3	−10	25.00	38.24	+3	+1
29	24.29	47.80	−1	−10	25.07	37.95	+4	+6
30	24.27	47.47	+1	−8	25.14	37.66	+3	+10
31	24.25	47.15	+3	−3				
32	24.23	46.82	+4	+2				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$20^h 47^m$	+82° 16′	in 0.01 s	in 0.01″	$20^h 47^m$	+82° 16′	in 0.01 s	in 0.01″
1	25.14	37.66	+3	+10	28.59	30.83	−3	+8
2	25.22	37.38	+2	+12	28.73	30.69	−4	+3
3	25.29	37.10	0	+12	28.87	30.56	−4	−2
4	25.37	36.82	−2	+9	29.02	30.43	−4	−6
5	25.46	36.54	−3	+5	29.17	30.31	−3	−8
6	25.54	36.27	−4	+1	29.31	30.20	−1	−10
7	25.63	36.00	−4	−3	29.46	30.09	0	−9
8	25.73	35.74	−3	−7	29.61	29.99	+2	−7
9	25.82	35.48	−2	−9	29.76	29.89	+3	−4
10	25.92	35.23	−1	−10	29.91	29.80	+4	0
11	26.02	34.98	+1	−9	30.07	29.72	+4	+4
12	26.12	34.73	+3	−6	30.22	29.64	+4	+7
13	26.22	34.49	+4	−3	30.37	29.57	+3	+8
14	26.33	34.25	+5	+1	30.53	29.50	+1	+7
15	26.44	34.02	+4	+5	30.69	29.44	−1	+5
16	26.55	33.79	+3	+7	30.84	29.39	−3	+1
17	26.66	33.57	+2	+8	31.00	29.35	−4	−4
18	26.78	33.35	0	+7	31.16	29.31	−4	−8
19	26.90	33.13	−2	+4	31.32	29.27	−3	−11
20	27.02	32.92	−3	−1	31.47	29.24	−1	−11
21	27.14	32.72	−4	−5	31.63	29.22	+1	−9
22	27.26	32.52	−3	−9	31.79	29.20	+2	−4
23	27.38	32.33	−2	−11	31.95	29.19	+4	+2
24	27.51	32.14	0	−10	32.11	29.19	+4	+7
25	27.64	31.96	+2	−6	32.27	29.19	+3	+11
26	27.77	31.78	+3	−2	32.43	29.20	+1	+13
27	27.90	31.61	+4	+4	32.59	29.22	−1	+12
28	28.03	31.44	+3	+9	32.75	29.24	−2	+9
29	28.17	31.28	+2	+12	32.91	29.27	−4	+5
30	28.31	31.12	+1	+13	33.07	29.31	−4	0
31	28.45	30.97	−1	+11	33.23	29.35	−4	−4
32	28.59	30.83	−3	+8				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 16′ 20″	7.437	+7.369	+82° 16′ 40″	7.442	+7.375	+82° 16′ 50″	7.445	+7.377
30	7.439	+7.372	50	7.445	+7.377	60	7.447	+7.380

$\alpha_{1932.0} = 20^h\ 47^m\ 37^s.49$ $\delta_{1932.0} = +82°\ 16'\ 51''.71$

*) Tag der doppelten unteren Kulmination: Feb. 2

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$20^h 47^m$	+82° 16′	in 0.01s 0.01″	$20^h 47^m$	+82° 16′	in 0.01s 0.01″	$20^h 47^m$	+82° 16′	in 0.01s 0.01″	$20^h 47^m$	+82° 16′	in 0.01s 0.01″
1	33.23	29.35	− 4 − 4	37.79	33.50	+ 1 − 8	40.77	41.84	+ 4 0	41.54	52.79	+ 1 + 8
2	33.38	29.39	− 4 − 7	37.92	33.72	+ 2 − 5	40.83	42.17	+ 4 + 4	41.52	53.16	0 + 7
3	33.54	29.44	− 2 − 9	38.05	33.94	+ 3 − 2	40.89	42.50	+ 4 + 7	{41.50 41.48}	53.53 53.89	− 2 + 4 − 3 0
4	33.70	29.50	0 − 9	38.18	34.17	+ 4 + 2	40.95	42.83	+ 2 + 8	41.45	54.26	− 4 − 5
5	33.86	29.57	+ 1 − 8	38.30	34.40	+ 4 + 5	41.01	43.17	+ 1 + 8	41.42	54.62	− 3 − 9
6	34.01	29.64	+ 3 − 5	38.42	34.64	+ 3 + 8	41.06	43.51	− 1 + 6	41.39	54.99	− 2 − 11
7	34.17	29.72	+ 4 − 1	38.54	34.88	+ 2 + 9	41.11	43.85	− 3 + 2	41.36	55.35	0 − 11
8	34.33	29.80	+ 4 + 3	38.65	35.13	0 + 7	41.16	44.19	− 4 − 2	41.32	55.72	+ 2 − 8
9	34.48	29.89	+ 4 + 6	38.77	35.38	− 2 + 4	41.20	44.54	− 4 − 7	41.29	56.08	+ 3 − 3
10	34.64	29.98	+ 3 + 8	38.88	35.64	− 3 0	41.25	44.88	− 3 − 10	41.25	56.45	+ 4 + 3
11	34.80	30.08	+ 1 + 8	38.99	35.90	− 4 − 5	41.29	45.23	− 1 − 11	41.20	56.81	+ 4 + 8
12	34.95	30.19	0 + 6	39.10	36.16	− 3 − 9	41.33	45.58	+ 1 − 10	41.16	57.17	+ 3 + 11
13	35.11	30.30	− 2 + 3	39.21	36.43	− 2 − 11	41.36	45.93	+ 3 − 6	41.11	57.53	+ 1 + 12
14	35.26	30.42	− 3 − 2	39.32	36.70	0 − 11	41.39	46.28	+ 4 − 1	41.06	57.89	− 1 + 10
15	35.41	30.54	− 4 − 7	39.42	36.98	+ 2 − 9	41.42	46.64	+ 4 + 5	41.00	58.25	− 3 + 7
16	35.56	30.67	− 3 − 10	39.52	37.26	+ 3 − 4	41.45	46.99	+ 4 + 9	40.95	58.60	− 4 + 3
17	35.71	30.81	− 2 − 12	39.62	37.54	+ 4 + 2	41.48	47.35	+ 2 + 12	40.89	58.96	− 4 − 2
18	35.86	30.95	0 − 11	39.71	37.83	+ 4 + 7	41.50	47.71	0 + 12	40.83	59.31	− 4 − 6
19	36.00	31.10	+ 2 − 7	39.81	38.12	+ 3 + 11	41.52	48.06	− 2 + 9	40.77	59.67	− 3 − 8
20	36.15	31.25	+ 3 − 2	39.90	38.41	+ 1 + 12	41.54	48.42	− 3 + 5	40.70	60.02	− 1 − 9
21	36.29	31.41	+ 4 + 4	39.99	38.71	− 1 + 11	41.55	48.78	− 4 + 1	40.63	60.37	0 − 8
22	36.44	31.57	+ 3 + 9	40.08	39.01	− 3 + 8	41.56	49.14	− 4 − 4	40.56	60.72	+ 2 − 6
23	36.58	31.74	+ 2 + 12	40.17	39.31	− 4 + 4	41.57	49.51	− 4 − 7	40.49	61.07	+ 3 − 3
24	36.72	31.92	0 + 13	40.26	39.62	− 4 − 1	41.58	49.87	− 2 − 9	40.41	61.41	+ 4 + 1
25	36.86	32.10	− 2 + 10	40.34	39.93	− 4 − 5	41.58	50.24	− 1 − 9	40.33	61.75	+ 4 + 4
26	36.99	32.28	− 3 + 7	40.41	40.24	− 3 − 8	41.58	50.60	+ 1 − 7	40.25	62.09	+ 3 + 7
27	37.13	32.47	− 4 + 2	40.49	40.55	− 2 − 9	41.58	50.97	+ 2 − 5	40.17	62.43	+ 2 + 8
28	37.27	32.67	− 5 − 2	40.56	40.87	0 − 9	41.58	51.33	+ 4 − 1	40.08	62.77	0 + 8
29	37.40	32.87	− 4 − 6	40.63	41.19	+ 2 − 7	41.57	51.70	+ 4 + 2	40.00	63.11	− 1 + 5
30	37.53	33.07	− 3 − 8	40.70	41.51	+ 3 − 4	41.56	52.06	+ 4 + 6	39.91	63.44	− 3 + 1
31	37.66	33.28	− 1 − 9	40.77	41.84	+ 4 0	41.55	52.43	+ 3 + 8	39.81	63.77	− 4 − 3
32	37.79	33.50	+ 1 − 8				41.54	52.79	+ 1 + 8	39.71	64.10	− 4 − 8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 16′ 20″	7.437	+7.369	+82° 16′ 40″	7.442	+7.375	+82° 17′ 0″	7.447	+7.380
30	7.439	+7.372	50	7.445	+7.377	10	7.450	+7.383

$\alpha_{1932.0} = 20^h\ 47^m\ 37^s.49$ $\delta_{1932.0} = +82°\ 16'\ 51''.71$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Nk) 76 Draconis $5^m.69$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$20^h 47^m$	+82° 17′	in $0^s.01$ $0''.01$	$20^h 47^m$	+82° 17′	in $0^s.01$ $0''.01$	$20^h 47^m$	+82° 17′	in $0^s.01$ $0''.01$	$20^h 47^m$	+82° 17′	in $0^s.01$ $0''.01$
1	$39^s.71$	$4''.10$	−4 −8	$35^s.96$	$12''.55$	0 −10	$30^s.80$	$17''.31$	+4 +7	$25^s.64$	$16''.90$	0 +12
2	39.62	4.43	−3 −10	35.81	12.77	+2 −6	30.62	17.38	+3 +11	25.48	16.80	−2 +10
3	39.52	4.75	−1 −11	35.65	12.99	+3 −1	30.45	17.44	+1 +13	25.32	16.69	−4 +6
4	39.42	5.07	+1 −9	35.50	13.21	+4 +4	30.27	17.50	−1 +12	25.16	16.57	−5 +1
5	39.31	5.38	+3 −4	35.34	13.42	+3 +9	30.09	17.56	−3 +8	25.00	16.45	−5 −3
6	39.21	5.70	+4 +1	35.19	13.63	+2 +12	29.91	17.61	−4 +4	24.85	16.33	−4 −7
7	39.10	6.01	+4 +6	35.03	13.83	0 +13	29.74	17.65	−5 −1	24.69	16.20	−2 −8
8	38.99	6.32	+3 +10	34.87	14.03	−2 +10	29.56	17.68	−4 −5	24.54	16.06	−1 −8
9	38.88	6.63	+1 +12	34.71	14.22	−3 +6	29.38	17.71	−3 −8	24.39	15.91	+1 −6
10	38.77	6.93	0 +12	34.55	14.41	−4 +2	29.20	17.73	−2 −9	24.24	15.76	+3 −4
11	38.65	7.23	−2 +9	34.39	14.60	−5 −3	29.03	17.75	0 −8	24.09	15.60	+3 0
12	38.54	7.53	−4 +4	34.23	14.78	−4 −7	28.85	17.76	+2 −6	23.95	15.44	+4 +3
13	38.42	7.83	−4 0	34.06	14.95	−2 −8	28.68	17.77	+3 −3	23.80	15.28	+4 +6
14	38.30	8.12	−4 −5	33.90	15.12	−1 −9	28.51	17.77	+4 +1	23.66	15.11	+3 +8
15	38.17	8.41	−3 −8	33.73	15.29	+1 −7	28.33	17.77	+4 +4	23.52	14.93	+1 +8
16	38.05	8.70	−2 −9	33.56	15.45	+2 −5	28.16	17.76	+4 +7	23.38	14.75	0 +6
17	37.92	8.98	0 −9	33.39	15.60	+4 −1	27.99	17.74	+2 +8	23.25	14.57	−2 +3
18	37.79	9.26	+1 −7	33.22	15.75	+4 +2	27.81	17.72	+1 +7	23.11	14.38	−3 −1
19	37.66	9.54	+3 −4	33.05	15.90	+4 +5	27.64	17.69	−1 +5	22.98	14.18	−4 −6
20	37.53	9.81	+4 0	32.88	16.04	+3 +7	27.46	17.66	−2 +1	22.85	13.98	−3 −10
21	37.40	10.08	+4 +3	32.71	16.17	+2 +8	27.29	17.62	−3 −4	22.72	13.77	−2 −12
22	37.26	10.34	+4 +6	32.54	16.30	0 +7	27.12	17.57	−3 −8	22.60	13.56	0 −12
23	37.12	10.60	+3 +8	32.36	16.43	−2 +4	26.95	17.52	−3 −11	22.48	13.35	+2 −9
24	36.98	10.86	+1 +8	32.19	16.55	−3 0	26.79	17.46	−1 −12	22.36	13.13	+4 −4
25	36.84	11.11	0 +6	32.02	16.66	−4 −5	26.62	17.40	+1 −10	22.24	12.91	+4 +2
26	36.70	11.36	−2 +2	31.85	16.77	−3 −9	26.45	17.33	+3 −6	22.12	12.68	+4 +7
27	36.56	11.60	−3 −2	31.67	16.87	−2 −11	26.29	17.26	+4 −1	22.00	12.45	+3 +11
28	36.41	11.85	−4 −7	31.50	16.97	0 −11	26.12	17.18	+4 +5	21.89	12.21	+1 +12
29	36.26	12.09	−3 −10	31.32	17.06	+1 −9	25.96	17.09	+3 +10	21.78	11.97	−1 +11
30	36.11	12.32	−2 −11	31.15	17.15	+3 −4	25.80	17.00	+2 +12	21.67	11.73	−3 +7
31	35.96	12.55	0 −10	30.97	17.23	+4 +2	25.64	16.90	0 +12	21.57	11.48	−4 +3
32				30.80	17.31	+4 +7				21.47	11.23	−5 −2

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 17′ 0″	7.447	+7.380	+82° 17′ 10″	7.450	+7.383
10	7.450	+7.383	20	7.453	+7.385

$\alpha_{1932.0} = 20^h\ 47^m\ 37^s.49$ $\delta_{1932.0} = +\ 82°\ 16'\ 51''.71$

N* 32

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^m.63$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder	Februar AR.	Februar Dekl.	Februar ☾ Glieder	März AR.	März Dekl.	März ☾ Glieder	April AR.	April Dekl.	April ☾ Glieder
	$1^h 41^m$	−85° 7′	in $0^s.01$ $0''.01$	$1^h 41^m$	−85° 6′	in $0^s.01$ $0''.01$	$1^h 40^m$	−85° 6′	in $0^s.01$ $0''.01$	$1^h 40^m$	−85° 6′	in $0^s.01$ $0''.01$
1	$18^s.13$	$4''.98$	+7 −2	$9^s.93$	$62''.63$	−5 −8	$63^s.41$	$55''.68$	−9 −2	$59^s.11$	$44''.96$	−1 +12
2	17.87	5.00	+5 −7	9.68	62.46	−8 −5	63.22	55.38	−8 +3	59.03	44.58	+3 +12
3	17.61	5.01	+1 −9	9.43	62.29	−8 0	63.03	55.07	−6 +7	58.95	44.20	+5 +10
4	17.34	5.02	−3 −9	9.18	62.11	−7 +5	62.85	54.76	−3 +10	58.88	43.82	+7 +6
5	17.07	5.03	−6 −7	8.93	61.92	−5 +8	62.67	54.44	+1 +11	58.81	43.44	+7 +2
6	16.80	5.02	−8 −3	8.68	61.73	−1 +11	62.49	54.12	+4 +10	58.74	43.06	+6 −2
7	16.53	5.00	−8 +2	8.44	61.53	+2 +11	62.32	53.80	+6 +8	58.68	42.68	+4 −6
8	16.26	4.98	−6 +6	8.20	61.33	+5 +10	62.15	53.48	+7 +4	58.62	42.30	+1 −9
9	15.99	4.95	−3 +10	7.96	61.12	+7 +7	61.99	53.15	+7 0	58.57	41.92	−2 −11
10	15.72	4.91	0 +11	7.72	60.91	+7 +2	61.83	52.82	+6 −4	58.52	41.53	−4 −11
11	15.45	4.87	+3 +11	7.48	60.69	+7 −2	61.67	52.49	+3 −8	58.48	41.14	−7 −9
12	15.19	4.83	+6 +9	7.24	60.47	+5 −6	61.51	52.16	0 −11	58.44	40.75	−7 −5
13	14.93	4.78	+7 +5	7.01	60.24	+2 −9	61.36	51.82	−3 −11	58.40	40.36	−6 −1
14	14.67	4.72	+7 +1	6.78	60.01	−1 −11	61.21	51.48	−5 −10	58.36	39.97	−4 +3
15	14.40	4.65	+6 −3	6.55	59.77	−4 −11	61.06	51.13	−7 −8	58.33	39.58	−1 +6
16	14.13	4.58	+4 −7	6.32	59.53	−6 −9	60.92	50.78	−7 −4	58.30	39.19	+3 +8
17	13.86	4.51	+1 −10	6.09	59.28	−7 −6	60.78	50.43	−6 +1	*)58.28	38.80	+6 +7
18	13.59	4.42	−2 −11	5.87	59.03	−7 −1	60.64	50.08	−3 +5	58.26	38.41	+8 +4
19	13.32	4.33	−5 −10	5.65	58.77	−5 +3	60.51	49.73	+1 +8	58.25	38.03	+8 0
20	13.05	4.24	−7 −8	5.43	58.51	−2 +7	60.38	49.37	+4 +8	58.24	37.65	+6 −4
21	12.79	4.14	−7 −4	5.22	58.25	+2 +9	60.26	49.01	+7 +6	58.24	37.27	+3 −8
22	12.53	4.03	−6 +1	5.01	57.98	+5 +8	60.14	48.65	+8 +3	58.24	36.89	−1 −9
23	12.27	3.92	−4 +5	4.80	57.71	+8 +6	60.02	48.29	+8 −1	58.24	36.51	−5 −8
24	12.01	3.80	0 +8	4.59	57.43	+8 +2	59.90	47.93	+5 −5	58.24	36.13	−8 −5
25	11.74	3.67	+3 +9	4.39	57.15	+7 −3	59.79	47.56	+1 −8	58.25	35.75	−9 0
26	11.48	3.54	+6 +8	4.19	56.86	+3 −6	59.68	47.19	−3 −8	58.26	35.37	−8 +5
27	11.22	3.40	+8 +4	3.99	56.57	0 −8	59.57	46.82	−6 −7	58.28	34.99	−6 +9
28	10.96	3.26	+8 0	3.79	56.28	−4 −8	59.47	46.45	−8 −3	58.30	34.61	−2 +12
29	10.70	3.11	+6 −5	3.60	55.98	−7 −6	59.37	46.08	−9 +2	58.33	34.23	+1 +12
30	10.44	2.96	+2 −8	3.41	55.68	−9 −2	59.28	45.71	−7 +6	58.36	33.85	+4 +11
31	10.18	2.80	−2 −9				59.19	45.34	−4 +10	58.40	33.47	+6 +8
32	9.93	2.63	−5 −8				59.11	44.96	−1 +12			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 6′ 30″	11.727	−11.684	−85° 6′ 50″	11.740	−11.698	−85° 7′ 0″	11.747	−11.705
40	11.734	−11.691	60	11.747	−11.705	10	11.754	−11.711

$\alpha_{1932.0} = 1^h\ 41^m\ 7^s.71$ $\delta_{1932.0} = -85°\ 6'\ 49''.13$

*) Tag der doppelten unteren Kulmination: April 17

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^m.63$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$1^h 40^m$	85°6′	^{s} 0.01	″ 0.01	$1^h 41^m$	85°6′	^{s} 0.01	″ 0.01	$1^h 41^m$	85°6′	^{s} 0.01	″ 0.01	$1^h 41^m$	85°6′	^{s} 0.01	″ 0.01
1	$58^s.40$	$33''.47$	+6	+8	$1^s.33$	$22''.82$	+3	−7	$7^s.06$	$15''.74$	−4	−10	$14^s.50$	$13''.39$	−6	+2
2	58.44	33.09	+7	+4	1.48	22.52	0	−9	7.29	15.58	−6	−8	14.74	13.41	−3	+6
3	58.48	32.72	+7	0	1.64	22.22	−3	−10	7.52	15.42	−7	−5	14.98	13.43	+1	+8
4	58.53	32.35	+5	−5	1.80	21.93	−5	−9	7.75	15.27	−7	−1	15.22	13.46	+4	+9
5	58.58	31.98	+2	−8	1.96	21.64	−7	−7	7.98	15.13	−5	+4	15.46	13.50	+7	+7
6	58.64	31.61	−1	−10	2.12	21.36	−7	−3	8.21	14.99	−1	+7	15.70	13.54	+8	+3
7	58.70	31.24	−3	−10	2.29	21.08	−6	+1	8.44	14.86	+2	+8	15.94	13.59	+8	−2
8	58.76	30.87	−6	−9	2.46	20.81	−3	+5	8.67	14.73	+5	+8	16.18	13.64	+5	−6
9	58.82	30.51	−7	−6	2.63	20.54	0	+7	8.91	14.61	+7	+5	16.42	13.70	+2	−9
10	58.89	30.15	−7	−2	2.80	20.28	+4	+8	9.15	14.49	+8	+1	16.66	13.76	−2	−10
11	58.96	29.79	−5	+2	2.98	20.02	+7	+6	9.39	14.38	+7	−4	16.89	13.83	−6	−8
12	59.04	29.43	−2	+5	3.16	19.76	+8	+3	9.63	14.28	+4	−8	17.12	13.91	−8	−4
13	59.12	29.07	+1	+7	3.35	19.50	+8	−2	9.87	14.18	0	−10	17.35	13.99	−8	0
14	59.20	28.72	+5	+7	3.54	19.25	+6	−6	10.11	14.09	−4	−10	17.58	14.08	−7	+5
15	59.29	28.37	+8	+5	3.73	19.01	+2	−9	10.35	14.00	−7	−7	17.81	14.18	−4	+9
16	59.38	28.02	+9	+1	3.92	18.77	−2	−10	10.59	13.92	−8	−3	18.04	14.28	0	+11
17	59.48	27.67	+8	−3	4.11	18.53	−5	−9	10.83	13.84	−8	+2	18.26	14.38	+3	+11
18	59.58	27.33	+5	−7	4.31	18.30	−8	−5	11.07	13.77	−6	+7	18.48	14.49	+6	+9
19	59.68	26.99	+1	−10	4.51	18.08	−9	0	11.31	13.70	−2	+11	18.70	14.61	+7	+6
20	59.78	26.65	−3	−9	4.71	17.86	−7	+5	11.55	13.64	+1	+12	18.92	14.73	+7	+2
21	59.89	26.31	−7	−7	4.91	17.64	−5	+9	11.79	13.59	+4	+11	19.14	14.85	+6	−3
22	60.00	25.98	−9	−3	5.12	17.43	−1	+12	12.04	13.54	+6	+8	19.36	14.98	+4	−6
23	60.12	25.65	−8	+3	5.33	17.22	+2	+12	12.29	13.50	+7	+4	19.57	15.12	+1	−9
24	60.24	25.32	−7	+7	5.54	17.02	+5	+11	12.54	13.46	+7	0	19.78	15.27	−2	−10
25	60.36	25.00	−3	+11	5.75	16.82	+7	+7	12.79	13.43	+5	−4	19.99	15.42	−5	−10
26	60.49	24.68	0	+12	5.96	16.63	+7	+3	13.04	13.41	+2	−7	20.20	15.57	−7	−8
27	60.62	24.36	+3	+12	6.18	16.44	+6	−1	13.29	13.39	0	−9	20.40	15.73	−7	−4
28	60.76	24.04	+6	+10	6.40	16.26	+4	−5	13.54	13.38	−3	−10	20.60	15.90	−6	0
29	60.90	23.73	+7	+6	6.62	16.08	+1	−8	13.78	13.37	−6	−9	20.80	16.07	−4	+4
30	61.04	23.42	+7	+1	6.84	15.91	−1	−10	14.02	13.37	−7	−6	21.00	16.24	−1	+7
31	61.18	23.12	+6	−3	7.06	15.74	−4	−10	14.26	13.38	−7	−2	21.19	16.42	+3	+8
32	61.33	22.82	+3	−7					14.50	13.39	−6	+2	21.38	16.61	+6	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 6′ 10″	11.714	−11.671	−85° 6′ 20″	11.721	−11.678	−85° 6′ 30″	11.727	−11.684
20	11.721	−11.678	30	11.727	−11.684	40	11.734	−11.691

$\alpha_{1932.0} = 1^h\ 41^m\ 7^s.71$ $\delta_{1932.0} = -85°\ 6'\ 49''.13$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^m.63$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	1^h41^m	—85° 6′	in 0.01 s	in 0.01 ″	1^h41^m	—85° 6′	in 0.01 s	in 0.01 ″	1^h41^m	—85° 6′	in 0.01 s	in 0.01 ″	1^h41^m	—85° 6′	in 0.01 s	in 0.01 ″
1	21.38	16.61	+6	+7	25.43	24.05	+7	−3	25.34	33.94	−8	−5	21.02	41.65	−6	+8
2	21.57	16.80	+8	+5	25.50	24.35	+5	−7	25.26	34.24	−9	0	20.82	41.85	−2	+12
3	21.75	16.99	+8	0	25.57	24.65	+1	−9	25.17	34.54	−7	+6	20.61	42.04	+1	+13
4	21.93	17.19	+6	−4	25.63	24.95	−3	−9	25.08	34.84	−5	+10	20.40	42.22	+4	+12
5	22.11	17.39	+3	−8	25.69	25.25	−7	−7	24.99	35.13	−1	+12	20.19	42.40	+6	+9
6	22.29	17.60	−1	−9	25.74	25.55	−8	−3	24.89	35.42	+2	+13	19.98	42.57	+7	+5
7	22.46	17.81	−5	−9	25.79	25.85	−8	+2	24.79	35.71	+5	+11	19.76	42.74	+6	0
8	22.63	18.03	−8	−6	25.83	26.16	−6	+7	24.68	36.00	+7	+7	19.54	42.90	+5	−4
9	22.79	18.25	−9	−1	25.87	26.47	−3	+11	24.57	36.29	+7	+3	19.31	43.06	+2	−7
10	22.95	18.47	−8	+4	25.90	26.78	0	+12	24.45	36.57	+6	−1	19.08	43.21	−1	−9
11	23.11	18.70	−5	+8	25.93	27.10	+4	+12	24.33	36.85	+4	−5	18.85	43.36	−4	−9
12	23.26	18.94	−2	+11	25.95	27.42	+6	+9	24.20	37.12	+1	−8	18.62	43.50	−6	−8
13	23.41	19.18	+2	+12	25.97	27.74	+7	+5	24.07	37.39	−2	−9	18.39	43.63	−7	−5
14	23.56	19.42	+5	+10	25.99	28.05	+7	+1	23.93	37.66	−5	−9	18.15	43.76	−7	−2
15	23.70	19.66	+7	+7	26.00	28.36	+5	−3	23.79	37.93	−6	−7	17.91	43.89	−5	+2
16	23.84	19.91	+7	+3	26.00	28.67	+3	−7	23.64	38.19	−7	−4	17.67	44.00	−3	+5
17	23.97	20.16	+7	−1	26.00 26.00	28.98 29.29	0 −3	−9 −10	23.49	38.45	−6	−1	17.43	44.11	+1	+7
18	24.10	20.42	+4	−5	25.99	29.60	−5	−9	23.34	38.70	−4	+3	17.19	44.22	+4	+7
19	24.23	20.68	+2	−8	25.97	29.91	−7	−7	23.18	38.96	−1	+6	16.94	44.32	+7	+5
20	24.35	20.94	−1	−10	25.95	30.23	−7	−3	23.02	39.21	+2	+7	16.69	44.42	+8	+1
21	24.47	21.21	−4	−10	25.93	30.55	−6	0	22.86	39.46	+6	+6	16.44	44.51	+8	−3
22	24.58	21.48	−6	−9	25.90	30.86	−3	+4	22.69	39.70	+8	+4	16.19	44.59	+5	−8
23	24.69	21.76	−7	−6	25.87	31.17	0	+6	22.52	39.93	+9	0	15.94	44.66	+2	−11
24	24.80	22.04	−7	−2	25.83	31.48	+4	+7	22.34	40.16	+7	−5	15.69	44.73	−2	−11
25	24.90	22.32	−5	+2	25.79	31.79	+7	+6	22.16	40.39	+4	−9	15.43	44.79	−6	−9
26	25.00	22.60	−2	+5	25.74	32.10	+8	+3	21.98	40.61	0	−11	15.17	44.85	−8	−5
27	25.09	22.88	+1	+7	25.68	32.41	+8	−2	21.80	40.83	−4	−10	14.91	44.90	−8	0
28	25.18	23.17	+5	+7	25.62	32.72	+6	−6	21.61	41.04	−7	−7	14.65	44.94	−7	+6
29	25.27	23.46	+8	+5	25.56	33.02	+3	−9	21.42	41.25	−8	−2	14.39	44.98	−4	+10
30	25.35	23.75	+8	+2	25.49	33.33	−2	−10	21.22	41.45	−8	+3	14.13	45.01	0	+12
31	25.43	24.05	+7	−3	25.42	33.64	−5	−8	21.02	41.65	−6	+8	13.87	45.03	+3	+12
32					25.34	33.94	−8	−5					13.61	45.05	+6	+10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 6′ 10″	11.714	−11.671	−85° 6′ 20″	11.721	−11.678	−85° 6′ 40″	11.734	−11.691
20	11.721	−11.678	30	11.727	−11.684	50	11.740	−11.698

$\alpha_{1932.0} = 1^h\ 41^m\ 7^s.71$ $\delta_{1932.0} = -85°\ 6'\ 49''.13$

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$5^h 6^m$	82° 33′	$0^s.01$	0″.01	$5^h 6^m$	82° 33′	$0^s.01$	0″.01	$5^h 6^m$	82° 33′	$0^s.01$	0″.01	$5^h 6^m$	82° 33′	$0^s.01$	0″.01
1	43.31	50.68	+3	+6	39.05	57.94	0	−10	33.64	60.48	−3	−10	27.66	58.27	−4	+5
2	43.21	50.97	+3	+1	38.88	58.10	−1	−11	33.44	60.48	−4	−7	27.48	58.12	−2	+9
3	43.11	51.26	+3	−4	38.71	58.26	−3	−9	33.24	60.48	−4	−2	27.30	57.97	−1	+10
4	43.00	51.55	+1	−8	38.54	58.41	−4	−5	33.04	60.48	−4	+2	27.12	57.81	+1	+10
5	42.89	51.84	0	−10	38.36	58.56	−4	−1	32.84	60.47	−3	+7	26.94	57.64	+2	+8
6	42.78	52.12	−2	−10	38.18	58.70	−4	+4	32.64	60.45	−2	+9	26.76	57.47	+3	+5
7	42.67	52.40	−4	−8	38.00	58.83	−2	+8	32.44	60.43	0	+10	26.59	57.30	+3	+1
8	42.55	52.67	−4	−3	37.82	58.96	−1	+10	32.24	60.41	+1	+10	26.42	57.12	+3	−3
9	42.43	52.94	−4	+1	37.64	59.09	+1	+10	32.04	60.39	+3	+7	26.25	56.94	+3	−7
10	42.31	53.20	−3	+6	37.46	59.21	+2	+9	31.84	60.35	+3	+4	26.08	56.75	+2	−10
11	42.19	53.46	−2	+9	37.28	59.32	+3	+6	31.64	60.31	+4	−1	25.91	56.56	0	−11
12	42.06	53.72	0	+10	37.10	59.43	+4	+2	31.45	60.27	+3	−5	25.74	56.37	−1	−10
13	41.93	53.97	+1	+10	36.91	59.54	+4	−2	31.26	60.22	+2	−9	25.58	56.17	−2	−7
14	41.80	54.22	+2	+8	36.72	59.64	+3	−7	31.07	60.16	+1	−11	25.42	55.96	−2	−2
15	41.67	54.46	+3	+5	36.53	59.74	+2	−10	30.87	60.10	0	−11	25.26	55.75	−2	+3
16	41.53	54.70	+4	0	36.34	59.83	+1	−11	30.67	60.03	−2	−9	25.10	55.54	−1	+7
17	41.39	54.94	+3	−4	36.15	59.91	−1	−10	30.47	59.96	−2	−5	24.94	55.33	0	+10
18	41.25	55.17	+3	−8	35.96	59.99	−2	−8	30.28	59.88	−2	0	24.78	55.11	+2	+11
19	41.11	55.40	+1	−10	35.77	60.06	−3	−3	30.09	59.80	−2	+5	24.63	54.89	+3	+9
20	40.96	55.62	0	−11	35.58	60.13	−3	+2	29.90	59.71	−1	+9	24.48	54.66	+4	+4
21	40.81	55.84	−2	−9	35.39	60.19	−2	+7	29.71	59.62	+1	+11	24.33	54.43	+3	−1
22	40.66	56.05	−2	−6	35.20	60.24	0	+10	29.52	59.52	+2	+10	24.18	54.20	+2	−6
23	40.51	56.26	−3	−1	35.00	60.29	+1	+11	29.33	59.42	+3	+7	24.04	53.96	0	−9
24	40.36	56.47	−3	+4	34.81	60.33	+2	+9	29.14	59.31	+3	+2	23.90	53.71	−1	−10
25	40.20	56.67	−1	+9	34.62	60.37	+3	+5	28.95	59.20	+3	−3	23.76	53.46	−3	−9
26	40.04	56.87	0	+11	34.43	60.40	+3	0	28.76	59.08	+1	−7	23.62	53.21	−4	−6
27	39.88	57.06	+2	+11	34.24	60.43	+2	−5	28.57	58.96	0	−10	23.48	52.96	−5	−1
28	39.72	57.25	+3	+8	34.04	60.45	+1	−9	28.38	58.83	−2	−10	23.34	52.70	−4	+4
29	39.56	57.43	+3	+3	33.84	60.47	−1	−10	28.20	58.70	−4	−8	23.21	52.44	−3	+8
30	39.39	57.61	+3	−2	33.64	60.48	−3	−10	28.02	58.56	−4	−4	23.08	52.18	−2	+10
31	39.22	57.78	+2	−7					27.84	58.42	−5	+1	22.95	51.92	0	+11
32	39.05	57.94	0	−10					27.66	58.27	−4	+5				

δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 50″	7.727	−7.662	−82° 34′ 0″	7.730	−7.665
60	7.730	−7.665	10	7.732	−7.668

$\alpha_{1932.0} = 5^h\ 6^m\ 32^s.66$ $\delta_{1932.0} = -82°\ 33'\ 51''.04$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	Mai			Juni			Juli			August		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	5^h6^m	— 82°33′	in 0.01s 0.01″	5^h6^m	— 82°33′	in 0.01s 0.01″	5^h6^m	— 82°33′	in 0.01s 0.01″	5^h6^m	— 82°33′	in 0.01s 0.01″
1	22.95	51.92	0 +11	20.18	42.44	+3 0	20.05	32.41	+1 −9	22.51	23.64	−3 −5
2	22.82	51.65	+2 +9	20.13	42.11	+3 −5	20.09	32.09	0 −11	22.63	23.41	−3 0
3	22.69	51.38	+3 +6	20.09	41.78	+2 −8	20.13	31.77	−1 −10	22.75	23.19	−2 +5
4	22.57	51.11	+3 +2	20.05	41.45	+1 −10	20.18	31.45	−2 −7	22.87	22.97	−1 +9
5	22.45	50.83	+3 −2	20.01	41.12	0 −11	20.23	31.13	−3 −3	22.99	22.75	+1 +11
6	22.33	50.55	+3 −6	19.97	40.78	−2 −9	20.28	30.81	−3 +2	23.11	22.54	+2 +10
7	22.21	50.27	+2 −9	19.94	40.44	−2 −6	20.33	30.50	−2 +7	23.24	22.34	+3 +7
8	22.10	49.98	+1 −11	*)19.91	40.10	−3 −1	20.39	30.19	0 +10	23.37	22.14	+4 +2
9	21.99	49.69	−1 −10	19.88	39.76	−2 +4	20.45	29.88	+1 +11	23.50	21.95	+3 −3
10	21.88	49.40	−2 −8	19.86	39.42	−1 +8	20.51	29.58	+3 +9	23.63	21.76	+2 −8
11	21.77	49.11	−2 −4	19.84	39.08	+1 +10	20.57	29.28	+4 +5	23.77	21.58	0 −11
12	21.67	48.81	−2 +1	19.82	38.74	+2 +10	20.64	28.98	+4 0	23.91	21.40	−2 −11
13	21.57	48.51	−1 +6	19.81	38.40	+3 +8	20.71	28.68	+3 −5	24.05	21.22	−3 −8
14	21.47	48.21	0 +9	19.80	38.06	+4 +3	20.78	28.38	+1 −9	24.19	21.04	−4 −4
15	21.37	47.90	+1 +11	19.79	37.72	+4 −2	20.86	28.09	−1 −11	24.33	20.88	−4 +1
16	21.28	47.59	+3 +9	19.78	37.38	+2 −7	20.94	27.80	−2 −10	24.47	20.72	−3 +5
17	21.19	47.28	+4 +6	19.78	37.04	0 −10	21.02	27.51	−4 −7	24.61	20.56	−2 +9
18	21.10	46.97	+4 +1	19.78	36.70	−1 −11	21.10	27.23	−4 −2	24.75	20.41	−1 +11
19	21.02	46.66	+3 −4	19.78	36.36	−3 −9	21.19	26.95	−4 +3	24.89	20.27	+1 +10
20	20.94	46.35	+1 −8	19.79	36.03	−4 −5	21.28	26.67	−3 +7	25.04	20.13	+2 +8
21	20.86	46.03	−1 −11	19.80	35.70	−4 0	21.37	26.40	−2 +10	25.19	20.00	+3 +5
22	20.78	45.71	−2 −10	19.81	35.37	−4 +5	21.46	26.14	0 +11	25.34	19.87	+3 0
23	20.71	45.39	−4 −7	19.83	35.03	−3 +9	21.56	25.87	+1 +10	25.49	19.75	+3 −4
24	20.64	45.07	−5 −3	19.85	34.70	−1 +11	21.66	25.61	+2 +7	25.64	19.64	+2 −7
25	20.57	44.75	−5 +2	19.87	34.37	0 +11	21.76	25.35	+3 +3	25.79	19.53	+1 −10
26	20.51	44.42	−4 +6	19.89	34.04	+2 +9	21.86	25.09	+3 −1	25.94	19.42	0 −11
27	20.45	44.09	−2 +10	19.92	33.71	+3 +6	21.96	24.84	+3 −5	26.10	19.32	−1 −9
28	20.39	43.76	−1 +11	19.95	33.38	+3 +2	22.07	24.59	+2 −9	26.26	19.23	−2 −6
29	20.33	43.43	+1 +10	19.98	33.05	+3 −3	22.18	24.35	+1 −10	26.42	19.14	−3 −2
30	20.28	43.10	+2 +8	20.01	32.73	+2 −7	22.29	24.11	−1 −10	26.58	19.06	−2 +3
31	20.23	42.77	+3 +4	20.05	32.41	+1 −9	22.40	23.87	−2 −8	26.74	18.99	−1 +7
32	20.18	42.44	+3 0				22.51	23.64	−3 −5	26.90	18.92	0 +10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 10″	7.715	−7.650	−82° 33′ 30″	7.721	−7.656	−82° 33′ 50″	7.727	−7.662
20	7.718	−7.653	40	7.724	−7.659	60	7.730	−7.665

$\alpha_{1932.0} = 5^h\ 6^m\ 32^s.66$ $\delta_{1932.0} = -82°\ 33'\ 51''.04$

*) Tag der doppelten unteren Kulmination: Juni 8

Sb) ξ Mensae $5^m.85$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$5^h 6^m$	—82° 33′	in 0.01^s $0.01''$	$5^h 6^m$	—82° 33′	in 0.01^s $0.01''$	$5^h 6^m$	—82° 33′	in 0.01^s $0.01''$	$5^h 6^m$	—82° 33′	in 0.01^s $0.01''$
1	26.90	18.92	0 +10	31.71	19.75	+3 + 6	35.65	26.12	0 —10	37.13	35.72	—4 — 7
2	27.06	18.86	+2 +11	31.86	19.87	+4 + 1	35.74	26.40	—2 —11	37.13	36.07	—5 — 2
3	27.22	18.81	+3 + 8	32.01	20.00	+3 — 4	35.83	26.69	—3 — 9	37.13	36.41	—4 + 3
4	27.38	18.76	+4 + 4	32.16	20.14	+1 — 8	35.92	26.98	—4 — 5	37.12	36.75	—3 + 8
5	27.54	18.71	+3 — 1	32.31	20.28	—1 —10	36.00	27.27	—5 0	37.11	37.10	—2 +10
6	27.70	18.67	+2 — 6	32.46	20.43	—2 —10	36.08	27.56	—4 + 5	37.10	37.44	0 +11
7	27.86	18.64	+1 —10	32.61	20.58	—4 — 7	36.16	27.86	—3 + 9	37.08	37.78	+1 +10
8	28.02	18.61	—1 —11	32.75	20.74	—5 — 3	36.24	28.16	—1 +11	{37.06 / 37.04}	38.12 / 38.46	{+2 +7 / +3 +3}
9	28.18	18.59	—3 — 9	32.89	20.90	—4 + 2	36.31	28.46	0 +11	37.01	38.81	+3 — 2
10	28.35	18.58	—4 — 6	33.03	21.07	—4 + 7	36.38	28.77	+2 + 9	36.98	39.15	+2 — 6
11	28.52	18.57	—4 — 1	33.17	21.25	—2 +10	36.45	29.08	+3 + 5	36.95	39.49	+1 — 9
12	28.69	18.57	—4 + 4	33.31	21.43	0 +11	36.51	29.39	+3 + 1	36.91	39.83	0 —10
13	28.85	18.58	—3 + 8	33.45	21.62	+1 +10	36.57	29.71	+3 — 3	36.87	40.17	—1 —10
14	29.01	18.59	—1 +10	33.58	21.81	+2 + 7	36.63	30.03	+2 — 7	36.83	40.51	—2 — 8
15	29.17	18.61	0 +11	33.71	22.01	+3 + 3	36.68	30.35	+1 —10	36.78	40.84	—2 — 4
16	29.33	18.64	+2 + 9	33.84	22.21	+3 — 1	36.73	30.67	0 —10	36.73	41.17	—2 0
17	29.49	18.67	+3 + 6	33.97	22.42	+3 — 5	36.78	30.99	—1 — 9	36.68	41.50	—2 + 5
18	29.65	18.70	+3 + 2	34.10	22.63	+2 — 8	36.83	31.32	—2 — 7	36.62	41.83	0 + 9
19	29.81	18.74	+3 — 3	34.23	22.85	+1 —10	36.87	31.65	—2 — 2	36.56	42.16	+1 +10
20	29.97	18.79	+3 — 6	34.35	23.07	0 —10	36.91	31.98	—2 + 2	36.50	42.49	+3 + 9
21	30.13	18.85	+2 — 9	34.47	23.30	—1 — 9	36.95	32.31	—1 + 6	36.43	42.82	+4 + 6
22	30.29	18.91	0 —11	34.59	23.53	—2 — 5	36.98	32.64	0 + 9	36.36	43.14	+4 + 2
23	30.45	18.98	—1 —10	34.71	23.77	—2 — 1	37.01	32.98	+2 +10	36.29	43.46	+4 — 4
24	30.61	19.06	—2 — 8	34.82	24.01	—2 + 4	37.04	33.32	+3 + 9	36.22	43.78	+2 — 8
25	30.77	19.14	—2 — 4	34.93	24.26	—1 + 8	37.06	33.66	+4 + 5	36.14	44.10	0 —11
26	30.93	19.23	—2 + 1	35.04	24.51	+1 +10	37.08	34.00	+4 0	36.06	44.41	—1 —11
27	31.09	19.32	—1 + 6	35.15	24.77	+2 +10	37.10	34.34	+3 — 5	35.98	44.72	—3 — 8
28	31.25	19.42	0 + 9	35.25	25.03	+3 + 8	37.11	34.68	+1 — 9	35.89	45.03	—4 — 4
29	31.40	19.52	+1 +11	35.35	25.29	+4 + 3	37.12	35.02	0 —11	35.80	45.34	—4 + 1
30	31.55	19.63	+3 +10	35.45	25.56	+3 — 2	37.13	35.37	—3 —10	35.71	45.65	—4 + 6
31	31.71	19.75	+3 + 6	35.55	25.84	+2 — 7	37.13	35.72	—4 — 7	35.61	45.95	—2 +10
32				35.65	26.12	0 —10				35.51	46.25	—1 +11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
—82° 33′ 10″	7.715	—7.650	—82° 33′ 30″	7.721	—7.656	—82° 33′ 40″	7.724	—7.659
20	7.718	—7.653	40	7.724	—7.659	50	7.727	—7.662

$\alpha_{1932.0} = 5^h\ 6^m\ 32^s.66$ $\delta_{1932.0} = -82^\circ\ 33'\ 51''.04$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sc) ζ Octantis 5ᵐ.38

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$9^h 7^m$	—85° 23′	in 0.01ˢ	in 0.01″	$9^h 7^m$	—85° 23′	in 0.01ˢ	in 0.01″	$9^h 6^m$	—85° 23′	in 0.01ˢ	in 0.01″	$9^h 6^m$	—85° 23′	in 0.01ˢ	in 0.01″
1	3ˢ.11	18″.16	−5	+10	4ˢ.80	29″.52	+6	+1	62ˢ.08	40″.72	+4	−11	55ˢ.66	50″.00	−7	−6
2	3.24	18.49	−1	+11	4.77	29.91	+7	−4	61.92	41.07	+1	−12	55.41	50.24	−8	−1
3	3.36	18.83	+2	+8	4.74	30.30	+6	−9	61.76	41.42	−1	−11	55.15	50.47	−8	+3
4	3.48	19.17	+5	+4	4.71	30.69	+4	−11	61.59	41.76	−5	−8	54.90	50.70	−6	+7
5	3.59	19.51	+7	−1	4.67	31.08	0	−12	61.42	42.10	−7	−4	54.64	50.92	−4	+9
6	3.70	19.85	+7	−6	4.62	31.47	−3	−10	61.25	42.44	−8	+1	54.38	51.14	−1	+9
7	3.80	20.20	+5	−10	4.57 / 4.52	31.86 / 32.24	−6 / −7	−6 / −2	61.07	42.77	−7	+5	54.12	51.36	+2	+8
8	3.90	20.55	+2	−12	4.46	32.62	−8	+2	60.89	43.10	−5	+8	53.86	51.57	+5	+6
9	3.99	20.90	−1	−11	4.40	33.00	−7	+6	60.71	43.43	−3	+9	53.60	51.78	+7	+3
10	4.08	21.26	−4	−9	4.33	33.38	−4	+9	60.53	43.76	0	+10	53.33	51.98	+8	−1
11	4.16	21.62	−7	−5	4.26	33.76	−1	+10	60.34	44.08	+4	+8	53.06	52.18	+8	−5
12	4.24	21.98	−8	0	4.19	34.14	+2	+9	60.15	44.40	+6	+5	52.79	52.38	+6	−7
13	4.31	22.34	−7	+4	4.11	34.52	+5	+7	59.95	44.72	+8	+2	52.52	52.57	+3	−8
14	4.38	22.71	−6	+7	4.02	34.90	+7	+4	59.75	45.03	+8	−2	52.25	52.75	−1	−6
15	4.45	23.08	−3	+9	3.93	35.28	+8	0	59.55	45.34	+7	−6	51.98	52.93	−4	−3
16	4.51	23.45	0	+10	3.84	35.66	+8	−4	59.34	45.64	+5	−7	51.70	53.10	−6	+1
17	4.57	23.82	+3	+9	3.74	36.03	+6	−7	59.13	45.94	+1	−7	51.42	53.27	−7	+6
18	4.62	24.19	+6	+6	3.64	36.40	+3	−8	58.92	46.24	−2	−6	51.14	53.43	−6	+9
19	4.66	24.57	+8	+2	3.53	36.77	0	−7	58.70	46.53	−5	−2	50.86	53.59	−3	+11
20	4.70	24.95	+8	−2	3.42	37.14	−4	−5	58.48	46.82	−7	+2	50.58	53.74	0	+10
21	4.74	25.33	+7	−5	3.30	37.51	−7	−1	58.26	47.11	−7	+7	50.30	53.89	+4	+7
22	4.77	25.71	+5	−8	3.18	37.88	−7	+4	58.04	47.39	−5	+10	50.02	54.03	+6	+2
23	4.79	26.09	+2	−9	3.06	38.24	−7	+8	57.81	47.67	−2	+10	49.74	54.17	+7	−4
24	4.81	26.47	−2	−7	2.93	38.60	−4	+10	57.58	47.95	+1	+8	49.46	54.31	+6	−9
25	4.83	26.85	−5	−4	2.80	38.96	−1	+10	57.35	48.22	+4	+5	49.18	54.44	+4	−12
26	4.84	27.23	−7	+1	2.66	39.32	+3	+7	57.12	48.49	+6	0	48.90	54.56	0	−13
27	4.85	27.61	−8	+5	2.52	39.67	+6	+2	56.88	48.75	+7	−6	48.62	54.68	−3	−11
28	4.85	27.99	−6	+9	2.38	40.02	+7	−3	56.64	49.01	+5	−10	48.33	54.79	−6	−8
29	4.84	28.37	−3	+10	2.23	40.37	+6	−7	56.40	49.26	+3	−12	48.04	54.89	−8	−3
30	4.83	28.75	+1	+9	2.08	40.72	+4	−11	56.16	49.51	−1	−12	47.75	54.99	−8	+1
31	4.82	29.13	+4	+6					55.91	49.76	−4	−10	47.46	55.09	−7	+5
32	4.80	29.52	+6	+1					55.66	50.00	−7	−6				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 23′ 10″	12.432	−12.391	−85° 23′ 30″	12.446	−12.406	−85° 23′ 50″	12.461	−12.421
20	12.439	−12.399	40	12.454	−12.414	60	12.469	−12.429

$\alpha_{1932.0} = 9^h\ 6^m\ 54^s.99$ $\delta_{1932.0} = -85°\ 23'\ 36''.40$

Sc) ζ Octantis $5^m.38$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder	
	$9^h 6^m$	—85° 23′	in 0.01s	0.01″	$9^h 6^m$	—85° 23′	in 0.01s	0.01″
1	47.46	55.09	−7	+5	38.73	55.44	+3	+7
2	47.17	55.18	−5	+8	38.46	55.37	+6	+4
3	46.88	55.26	−2	+9	38.20	55.29	+7	+1
4	46.59	55.34	+1	+9	37.94	55.21	+8	−3
5	46.30	55.41	+4	+7	37.68	55.12	+7	−6
6	46.01	55.48	+6	+4	37.42	55.03	+5	−8
7	45.72	55.55	+8	0	37.16	54.93	+2	−8
8	45.43	55.61	+8	−4	36.91	54.83	−2	−6
9	45.14	55.66	+7	−6	36.66	54.72	−5	−3
10	44.85	55.71	+4	−8	36.41	54.60	−7	+2
11	44.57	55.76	+1	−7	36.16	54.48	−7	+7
12	44.29	55.80	−3	−5	35.92	54.36	−5	+10
13	44.01	55.83	−5	−1	35.68	54.23	−2	+12
14	43.72	55.86	−7	+4	35.44	54.09	+1	+10
15	43.43	55.88	−6	+8	35.20	53.95	+5	+7
16	43.14	55.90	−4	+11	34.97	53.81	+7	+2
17	42.86	55.91	−1	+11	34.74	53.66	+8	−4
18	42.58	55.91	+3	+9	34.51	53.51	+6	−9
19	42.30	55.91	+6	+5	34.28	53.35	+4	−11
20	42.02	55.91	+7	−1	34.06	53.19	0	−12
21	41.74	55.90	+7	−6	33.84	53.03	−4	−10
22	41.46	55.89	+5	−11	33.62	52.86	−6	−7
23	41.18	55.87	+2	−13	33.40	52.69	−8	−2
24	40.90	55.84	−2	−12	33.19	52.51	−8	+2
25	40.62	55.81	−5	−9	32.98	52.33	−7	+6
26	40.35	55.77	−7	−5	32.77	52.14	−4	+8
27	40.08	55.73	−8	−1	32.57	51.95	−1	+9
28	39.81	55.68	−8	+4	32.37	51.75	+2	+8
29	39.54	55.63	−6	+7	32.17	51.55	+5	+6
30	39.27	55.57	−3	+8	31.98	51.35	+7	+2
31	39.00	55.51	0	+9	31.79	51.14	+8	−1
32	38.73	55.44	+3	+7				

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$9^h 6^m$	—85° 23′	in 0.01s	0.01″	$9^h 6^m$	—85° 23′	in 0.01s	0.01″
1	31.79	51.14	+8	−1	27.85	43.10	+1	−8
2	31.60	50.93	+7	−5	27.79	42.81	−2	−6
3	31.42	50.71	+6	−7	27.74	42.51	−5	−2
4	31.24	50.49	+3	−8	27.69	42.21	−7	+2
5	31.07	50.27	−1	−7	27.65	41.91	−7	+7
6	30.90	50.04	−4	−5	27.61	41.61	−5	+10
7	30.73	49.81	−6	0	27.58	41.31	−2	+11
8	30.56	49.57	−7	+4	*)27.55	41.01	+2	+9
9	30.40	49.33	−6	+8	27.52	40.71	+5	+6
10	30.24	49.09	−4	+11	27.50	40.41	+7	+1
11	30.09	48.85	0	+11	27.48	40.10	+7	−5
12	29.94	48.60	+3	+8	27.47	39.79	+6	−9
13	29.79	48.35	+6	+4	27.46	39.48	+3	−12
14	29.65	48.10	+8	−1	27.46	39.17	−1	−12
15	29.51	47.84	+7	−7	27.46	38.86	−4	−9
16	29.38	47.58	+5	−10	27.47	38.56	−7	−5
17	29.25	47.32	+2	−12	27.48	38.26	−8	−1
18	29.13	47.06	−2	−11	27.50	37.96	−8	+4
19	29.01	46.79	−5	−8	27.53	37.66	−6	+7
20	28.90	46.52	−8	−4	27.56	37.36	−4	+9
21	28.79	46.25	−8	+1	27.59	37.06	−1	+9
22	28.68	45.97	−8	+5	27.63	36.76	+3	+8
23	28.58	45.69	−6	+7	27.67	36.46	+5	+5
24	28.48	45.41	−3	+9	27.71	36.16	+7	+2
25	28.39	45.13	+1	+8	27.76	35.86	+8	−2
26	28.30	44.85	+4	+7	27.82	35.56	+7	−5
27	28.21	44.56	+6	+4	27.88	35.26	+5	−7
28	28.13	44.27	+7	0	27.95	34.96	+2	−8
29	28.05	43.98	+8	−3	28.02	34.67	−1	−7
30	27.98	43.69	+6	−6	28.10	34.38	−4	−4
31	27.91	43.40	+4	−8	28.18	34.09	−6	+1
32	27.85	43.10	+1	−8	28.27	33.80	−7	+5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 23′ 30″	12.446	−12.406	−85° 23′ 40″	12.454	−12.414	−85° 23′ 50″	12.461	−12.421
40	12.454	−12.414	50	12.461	−12.421	60	12.469	−12.429

$\alpha_{1932.0} = 9^h\ 6^m\ 54^s.99 \qquad \delta_{1932.0} = -85°\ 23'\ 36''.40$

*) Tag der doppelten unteren Kulmination: Aug. 8

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sc) ζ Octantis $5^m.38$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$9^h 6^m$	−85° 23′	in 0.01ˢ 0.01″	$9^h 6^m$	−85° 23′	in 0.01ˢ 0.01″	$9^h 6^m$	−85° 23′	in 0.01ˢ 0.01″	$9^h 6^m$	−85° 23′	in 0.01ˢ 0.01″
1	28ˢ.27	33″.80	−7 +5	32ˢ.84	26″.52	−1 +11	40ˢ.51	23″.56	+7 −4	48ˢ.38	26″.50	+1 −12
2	28.36	33.51	−6 +9	33.05	26.34	+2 +9	40.78	23.56	+6 −9	48.62	26.70	−3 −12
3	28.45	33.22	−3 +11	33.27	26.16	+5 +4	41.05	23.57	+3 −12	48.86	26.90	−6 −9
4	28.55	32.94	0 +10	33.49	25.99	+7 −1	41.32	23.59	−1 −12	49.09	27.10	−8 −4
5	28.65	32.66	+4 +7	33.71	25.83	+7 −6	41.59	23.62	−4 −11	49.32	27.31	−9 0
6	28.76	32.38	+6 +2	33.93	25.67	+5 −10	41.86	23.65	−7 −7	49.55	27.53	−8 +4
7	28.87	32.11	+7 −3	34.16	25.51	+2 −12	42.13	23.69	−8 −2	49.77	27.75	−6 +7
8	28.99	31.84	+6 −8	34.39	25.36	−2 −12	42.40	23.73	−9 +2	49.99	27.98	−3 +8
9	29.11	31.57	+4 −11	34.62	25.22	−5 −9	42.68	23.78	−7 +6	50.21	28.22	+1 +8
10	29.24	31.30	+1 −12	34.85	25.08	−8 −5	42.95	23.84	−4 +8	50.42	28.46	+4 +5
11	29.37	31.03	−3 −10	35.09	24.95	−9 0	43.22	23.90	−1 +8	50.63	28.71	+6 +2
12	29.51	30.77	−6 −7	35.33	24.82	−8 +4	43.49	23.97	+2 +7	50.84	28.96	+7 −1
13	29.65	30.51	−8 −3	35.57	24.70	−6 +7	43.76	24.04	+5 +5	51.05	29.21	+7 −4
14	29.79	30.26	−8 +2	35.82	24.58	−3 +9	44.03	24.13	+7 +1	51.25	29.47	+6 −7
15	29.94	30.01	−7 +6	36.07	24.47	0 +8	44.30	24.22	+8 −2	51.45	29.74	+4 −8
16	30.09	29.76	−5 +8	36.32	24.37	+3 +7	44.57	24.31	+7 −5	51.64	30.01	+1 −8
17	30.25	29.51	−2 +9	36.57	24.27	+6 +4	44.84	24.41	+5 −7	51.83	30.28	−2 −5
18	30.41	29.27	+1 +8	36.82	24.18	+7 0	45.10	24.52	+3 −8	52.02	30.56	−5 −1
19	30.57	29.03	+4 +6	37.07	24.09	+8 −3	45.36	24.64	0 −6	52.20	30.85	−6 +3
20	30.74	28.80	+7 +3	37.33	24.01	+7 −6	45.62	24.76	−3 −3	52.38	31.14	−6 +8
21	30.91	28.57	+8 −1	37.59	23.94	+5 −7	45.88	24.89	−6 +1	52.56	31.43	−4 +11
22	31.09	28.35	+8 −4	37.85	23.87	+2 −7	46.14	25.03	−6 +5	52.73	31.72	−1 +12
23	31.27	28.13	+6 −7	38.11	23.81	−1 −5	46.40	25.17	−6 +9	52.90	32.02	+3 +10
24	31.45	27.91	+4 −8	38.37	23.75	−4 −2	46.66	25.31	−3 +12	53.06	32.32	+6 +7
25	31.64	27.70	0 −7	38.63	23.71	−6 +2	46.91	25.46	0 +12	53.22	32.63	+8 +1
26	31.83	27.49	−3 −5	38.89	23.67	−6 +7	47.16	25.62	+4 +9	53.37	32.94	+8 −4
27	32.03	27.29	−5 −1	39.16	23.63	−5 +10	47.41	25.78	+6 +4	53.52	33.26	+6 −9
28	32.23	27.09	−7 +4	39.43	23.60	−2 +11	47.66	25.95	+7 −1	53.67	33.58	+3 −11
29	32.43	26.89	−6 +8	39.70	23.58	+1 +10	47.90	26.13	+7 −7	53.81	33.91	−1 −12
30	32.63	26.70	−4 +10	39.97	23.57	+5 +7	48.14	26.31	+5 −10	53.95	34.24	−4 −10
31	32.84	26.52	−1 +11	40.24	23.56	+7 +2	48.38	26.50	+1 −12	54.08	34.57	−7 −6
32				40.51	23.56	+7 −4				54.21	34.90	−9 −1

δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 23′ 20″	12.439	−12.399	−85° 23′ 30″	12.446	−12.406
30	12.446	−12.406	40	12.454	−12.414

$\alpha_{1932.0} = 9^h\ 6^m\ 54^s.99$ $\delta_{1932.0} = -85°\ 23'\ 36''.40$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sd) ι Octantis $5^{m}.38$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
	$12^{h}\ 47^{m}$	— 84° 44′	in 0.01^{s}	in $0.01''$	$12^{h}\ 47^{m}$	— 84° 45′	in 0.01^{s}	in $0.01''$
1	$31^{s}.23$	$58''.16$	−9	+2	$38^{s}.86$	$3''.57$	+3	+8
2	31.49	58.25	−7	+6	39.08	3.83	+6	+4
3	31.75	58.34	−4	+9	39.30	4.09	+9	0
4	32.01	58.44	0	+9	39.52	4.36	+9	−5
5	32.27	58.55	+4	+7	39.73	4.63	+7	−8
6	32.53	58.66	+7	+3	39.94	4.91	+5	−11
7	32.79	58.78	+9	−2	40.15	5.19	+1	−11
8	33.05	58.90	+9	−6	40.35	5.47	−2	−10
9	33.31	59.03	+7	−10	40.55	5.76	−5	−7
10	33.57	59.17	+3	−11	40.75	6.05	−7	−3
11	33.83	59.31	0	−11	40.94	6.35	−8	+2
12	34.09	59.45	−3	−9	41.13	6.65	−7	+6
13	34.34	59.61	−6	−5	41.32	6.96	−5	+9
14	34.59	59.77	−7	−1	41.51	7.27	−2	+11
15	34.84	59.93	−7	+3	41.69	7.58	+1	+11
16	35.09	60.10	−6	+7	41.87	7.90	+4	+9
17	35.34	60.28	−4	+10	42.05	8.22	+6	+6
18	35.59	60.46	−1	+11	42.23	8.54	+7	+2
19	35.84	60.65	+2	+10	42.40	8.87	+7	−2
20	36.08	60.84	+5	+8	42.57	9.20	+4	−6
21	36.32	61.04	+7	+4	42.74	9.53	+1	−8
22	36.56	61.25	+7	0	42.90	9.87	−3	−8
23	36.80	61.46	+6	−5	43.06	10.21	−6	−6
24	37.04	61.67	+3	−8	43.22	10.55	−8	−2
25	37.27	61.89	0	−9	43.37	10.89	−8	+2
26	37.50	62.11	−4	−7	43.52	11.24	−6	+6
27	37.73	62.34	−7	−4	43.67	11.59	−3	+8
28	37.96	62.58	−8	0	43.82	11.94	+1	+8
29	38.19	62.82	−8	+4	43.96	12.29	+5	+5
30	38.42	63.06	−5	+8	44.10	12.65	+8	+1
31	38.64	63.31	−1	+9				
32	38.86	63.57	+3	+8				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$12^{h}\ 47^{m}$	— 84° 45′	in 0.01^{s}	in $0.01''$	$12^{h}\ 47^{m}$	— 84° 45′	in 0.01^{s}	in $0.01''$
1	$44^{s}.10$	$12''.65$	+8	+1	$46^{s}.63$	$24''.46$	+4	−12
2	44.23	13.01	+9	−3	46.66	24.85	0	−12
3	44.36	13.37	+8	−7	46.68 46.70	25.24 25.62	−3 −6	−10 −6
4	44.49	13.74	+6	−10	46.71	26.01	−7	−2
5	44.61	14.11	+3	−11	46.72	26.40	−7	+2
6	44.73	14.48	−1	−11	46.73	26.79	−6	+6
7	44.85	14.85	−4	−8	46.74	27.17	−4	+9
8	44.96	15.22	−7	−4	46.74	27.55	−1	+10
9	45.07	15.59	−8	0	46.74	27.93	+2	+10
10	45.18	15.96	−7	+4	46.73	28.31	+5	+8
11	45.28	16.34	−6	+8	46.72	28.69	+6	+5
12	45.38	16.72	−3	+10	46.71	29.07	+7	+1
13	45.48	17.10	0	+11	46.69	29.45	+7	−3
14	45.57	17.48	+3	+10	46.67	29.83	+3	−6
15	45.66	17.86	+5	+7	46.65	30.21	0	−7
16	45.75	18.24	+7	+4	46.62	30.58	−4	−6
17	45.83	18.62	+7	0	46.59	30.95	−7	−3
18	45.91	19.00	+5	−4	46.55	31.32	−9	0
19	45.98	19.39	+2	−7	46.51	31.69	−8	+4
20	46.05	19.78	−1	−7	46.47	32.06	−6	+8
21	46.12	20.17	−5	−6	46.43	32.42	−2	+9
22	46.19	20.56	−8	−3	46.38	32.78	+2	+8
23	46.25	20.95	−9	+1	46.33	33.14	+6	+5
24	46.31	21.34	−8	+5	46.28	33.50	+9	0
25	46.36	21.73	−4	+8	46.22	33.86	+9	−5
26	46.41	22.12	0	+8	46.16	34.21	+8	−9
27	46.46	22.51	+4	+6	46.10	34.56	+6	−12
28	46.50	22.90	+7	+3	46.03	34.91	+2	−13
29	46.54	23.29	+9	−2	45.96	35.26	−2	−11
30	46.57	23.68	+9	−6	45.88	35.60	−5	−8
31	46.60	24.07	+7	−10	45.80	35.94	−7	−4
32	46.63	24.46	+4	−12				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 44′ 50″	10.923	−10.877	−84° 45′ 10″	10.935	−10.889	−84° 45′ 30″	10.946	−10.900
60	10.929	−10.883	20	10.940	−10.895	40	10.952	−10.906

$\alpha_{1932.0} = 12^{h}\ 47^{m}\ 38^{s}.08$ $\delta_{1932.0} = -84°\ 45'\ 16''.46$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$12^h\ 47^m$	$-84^\circ 45'$	in $0^s.01$	in $0''.01$	$12^h\ 47^m$	$-84^\circ 45'$	in $0^s.01$	in $0''.01$	$12^h\ 47^m$	$-84^\circ 45'$	in $0^s.01$	in $0''.01$	$12^h\ 47^m$	$-84^\circ 45'$	in $0^s.01$	in $0''.01$
1	$45^s.80$	$35''.94$	−7	−4	$41^s.97$	$44''.89$	−3	+9	$36^s.26$	$49''.40$	+5	+7	$29^s.80$	$48''.85$	+5	−5
2	45.72	36.28	−7	0	41.80	45.11	0	+10	36.05	49.47	+6	+4	29.60	48.74	+2	−7
3	45.64	36.62	−7	+4	41.63	45.33	+3	+9	35.84	49.53	+7	+1	29.40	48.63	−1	−8
4	45.55	36.96	−5	+8	41.46	45.54	+5	+7	35.63	49.59	+6	−3	29.21	48.51	−5	−6
5	45.46	37.29	−2	+10	41.29	45.75	+7	+3	35.42	49.64	+4	−6	29.02	48.39	−8	−3
6	45.37	37.62	+1	+10	41.12	45.96	+7	0	35.21	49.68	+1	−8	28.83	48.26	−9	+2
7	45.27	37.94	+4	+9	40.94	46.16	+6	−4	35.00	49.72	−3	−7	28.64	48.13	−8	+6
8	45.17	38.26	+6	+6	40.76	46.35	+3	−7	34.79	49.76	−6	−5	28.45	47.99	−5	+9
9	45.07	38.58	+7	+2	40.58	46.54	−1	−7	34.58	49.79	−8	−1	28.27	47.84	−1	+10
10	44.97	38.90	+7	−1	40.40	46.73	−5	−6	34.37	49.81	−9	+4	28.09	47.69	+3	+8
11	44.86	39.21	+5	−5	40.22	46.91	−8	−2	34.16	49.82	−7	+8	27.91	47.54	+7	+4
12	44.75	39.52	+1	−6	40.03	47.08	−9	+2	33.94	49.83	−4	+10	27.73	47.38	+9	0
13	44.64	39.82	−2	−7	39.84	47.25	−8	+6	33.73	49.84	+1	+10	27.55	47.21	+9	−5
14	44.52	40.12	−6	−4	39.65	47.41	−6	+9	33.52	49.84	+5	+7	27.37	47.04	+7	−9
15	44.40	40.42	−8	−1	39.46	47.57	−2	+10	33.31	49.83	+8	+3	27.20	46.87	+4	−11
16	44.28	40.71	−9	+3	39.27	47.73	+2	+9	33.10	49.82	+9	−2	27.03	46.69	0	−11
17	44.15	41.00	−8	+7	39.08	47.88	+6	+5	32.89	49.80	+8	−7	26.86	46.51	−3	−9
18	44.02	41.29	−4	+9	38.89	48.02	+9	0	32.68	49.77	+6	−10	26.70	46.32	−6	−6
19	43.89	41.57	0	+9	38.70	48.16	+9	−5	32.47	49.74	+2	−12	26.54	46.13	−7	−2
20	43.76	41.85	+4	+7	38.50	48.29	+8	−9	32.26	49.71	−1	−11	26.38	45.94	−7	+2
21	43.62	42.13	+8	+3	38.30	48.42	+5	−12	32.05	49.67	−4	−8	26.22	45.74	−6	+6
22	43.48	42.40	+9	−2	38.10	48.54	+1	−12	31.84	49.62	−7	−5	26.07	45.54	−3	+9
23	43.34	42.67	+9	−7	37.90	48.66	−2	−11	31.63	49.57	−7	0	25.92	45.33	−1	+10
24	43.20	42.93	+7	−11	37.70	48.77	−5	−7	31.42	49.51	−7	+4	25.77	45.12	+2	+9
25	43.06	43.19	+3	−12	37.50	48.87	−7	−3	31.21	49.45	−5	+7	25.62	44.90	+5	+7
26	42.91	43.45	0	−12	37.30	48.97	−7	+1	31.00	49.38	−2	+9	25.48	44.68	+7	+4
27	42.76	43.70	−4	−10	37.10	49.07	−6	+5	30.80	49.31	0	+9	25.34	44.45	+7	0
28	42.61	43.95	−6	−6	36.89	49.16	−4	+8	30.60	49.23	+3	+8	25.20	44.22	+6	−3
29	42.45	44.19	−7	−2	36.68	49.24	−1	+9	30.40	49.14	+6	+6	25.06	43.99	+3	−6
30	42.29	44.43	−7	+3	36.47	49.32	+2	+9	30.20	49.05	+7	+2	24.93	43.75	0	−7
31	42.13	44.66	−5	+6	36.26	49.40	+5	+7	30.00	48.95	+7	−1	24.80	43.51	−4	−7
32	41.97	44.89	−3	+9					29.80	48.85	+5	−5	24.68	43.26	−7	−4

δ	sec δ	tg δ	δ	sec δ	tg δ
$-84^\circ 45' 30''$	10.946	−10.900	$-84^\circ 45' 40''$	10.952	−10.906
40	10.952	−10.906	50	10.958	−10.912

$\alpha_{1932.0} = 12^h\ 47^m\ 38^s.08$ $\qquad$ $\delta_{1932.0} = -84^\circ\ 45'\ 16''.46$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$12^h\,47^m$	—84° 45′	in 0.01s / 0.01″	$12^h\,47^m$	—84° 45′	in 0.01s / 0.01″	$12^h\,47^m$	—84° 45′	in 0.01s / 0.01″	$12^h\,47^m$	—84° 45′	in 0.01s / 0.01″
1	24.68	43.26	−7 −4	22.74	34.77	−7 +7	24.87	25.84	+6 +5	30.60	20.24	+8 −8
2	24.56	43.01	−8 0	22.74	34.46	−4 +9	25.01	25.59	+9 0	30.84	20.14	+6 −11
3	24.44	42.76	−8 +4	*)22.75	34.15	0 +9	25.15	25.34	+9 −6	31.08	20.04	+2 −13
4	24.33	42.51	−6 +7	22.76	33.84	+4 +7	25.30	25.10	+8 −10	31.32	19.95	−1 −12
5	24.22	42.25	−2 +9	22.77	33.54	+8 +2	25.45	24.86	+5 −12	31.56	19.86	−4 −9
6	24.11	41.99	+2 +8	22.79	33.24	+9 −2	25.61	24.62	+1 −13	31.80	19.78	−6 −5
7	24.01	41.73	+6 +6	22.81	32.94	+9 −7	25.77	24.39	−3 −11	32.05	19.70	−7 −1
8	23.91	41.46	+8 +1	22.84	32.64	+7 −11	25.93	24.16	−6 −8	32.30	19.63	−6 +3
9	23.81	41.19	+9 −4	22.87	32.34	+3 −12	26.10	23.93	−7 −3	32.55	19.57	−4 +6
10	23.72	40.92	+8 −8	22.91	32.04	0 −12	26.27	23.71	−7 +1	32.80	19.52	−2 +8
11	23.63	40.65	+5 −11	22.95	31.74	−4 −9	26.44	23.49	−6 +5	33.05	19.47	+1 +8
12	23.55	40.37	+2 −12	23.00	31.44	−6 −5	26.62	23.28	−3 +8	33.30	19.43	+4 +7
13	23.47	40.09	−2 −10	23.05	31.14	−7 −1	26.80	23.07	−1 +9	33.56	19.39	+6 +5
14	23.39	39.81	−5 −7	23.11	30.84	−7 +3	26.99	22.87	+2 +9	33.82	19.36	+7 +1
15	23.32	39.53	−7 −3	23.17	30.54	−5 +7	27.18	22.67	+5 +7	34.08	19.34	+7 −2
16	23.25	39.24	−7 +1	23.24	30.25	−2 +9	27.37	22.48	+6 +4	34.34	19.32	+5 −5
17	23.19	38.95	−6 +5	23.31	29.96	0 +9	27.56	22.30	+7 +1	34.60	19.31	+2 −6
18	23.13	38.66	−4 +8	23.38	29.67	+3 +8	27.76	22.12	+6 −3	34.86	19.30	−2 −7
19	23.07	38.37	−2 +9	23.46	29.38	+6 +6	27.96	21.94	+4 −5	35.12	19.30	−5 −5
20	23.02	38.08	+1 +9	23.54	29.09	+7 +3	28.17	21.77	0 −6	35.38	19.31	−8 −1
21	22.97	37.79	+4 +8	23.63	28.80	+7 0	28.38	21.61	−3 −6	35.64	19.32	−9 +3
22	22.93	37.49	+6 +5	23.72	28.52	+5 −4	28.59	21.45	−7 −3	35.90	19.34	−8 +7
23	22.89	37.19	+7 +2	23.82	28.24	+2 −6	28.80	21.29	−9 +1	36.16	19.37	−5 +10
24	22.86	36.89	+6 −2	23.92	27.96	−1 −6	29.02	21.14	−9 +5	36.42	19.41	−1 +11
25	22.83	36.59	+4 −5	24.02	27.68	−5 −5	29.24	21.00	−7 +9	36.68	19.45	+3 +9
26	22.80	36.29	+1 −7	24.13	27.41	−8 −2	29.46	20.86	−4 +10	36.95	19.49	+7 +5
27	22.78	35.99	−2 −7	24.24	27.14	−9 +2	29.68	20.72	0 +10	37.22	19.54	+9 0
28	22.76	35.69	−6 −5	24.36	26.87	−8 +6	29.91	20.59	+5 +7	37.49	19.60	+9 −5
29	22.75	35.39	−8 −1	24.48	26.61	−6 +9	30.14	20.47	+8 +3	37.76	19.66	+7 −10
30	22.74	35.08	−9 +3	24.61	26.35	−2 +10	30.37	20.35	+9 −3	38.03	19.73	+4 −12
31	22.74	34.77	−7 +7	24.74	26.09	+2 +8	30.60	20.24	+8 −8	38.30	19.81	0 −12
32				24.87	25.84	+6 +5				38.57	19.90	−3 −10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 45′ 10″	10.935	−10.889	−84° 45′ 20″	10.940	−10.895	−84° 45′ 40″	10.952	−10.906
20	10.940	−10.895	30	10.946	−10.900	50	10.958	−10.912

$\alpha_{1932.0} = 12^h\ 47^m\ 38^s.08 \qquad \delta_{1932.0} = -84°\ 45'\ 16''.46$

*) Tag der doppelten unteren Kulmination: Okt. 3

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Se) Octantis 20 G. $6^m.52$

Tag	Januar			Februar			März			April		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$14^h 52^m$	−87° 52′	in 0.01s 0.01″	$14^h 52^m$	−87° 52′	in 0.01s 0.01″	$14^h 53^m$	−87° 52′	in 0.01s 0.01″	$14^h 53^m$	−87° 52′	in 0.01s 0.01″
1	21.06	22.54	−20 − 3	41.47	21.83	+ 1 + 9	0.50	26.00	+16 + 7	16.64	34.45	+17 − 9
2	21.67	22.43	−20 + 2	42.15	21.90	+10 + 8	1.11	26.22	+22 + 3	17.05	34.77	+ 9 −11
3	22.28	22.32	−15 + 6	42.84	21.98	+18 + 6	1.71	26.44	+23 − 2	17.45	35.09	+ 1 −11
4	22.90	22.22	− 6 + 9	43.53	22.06	+22 + 1	2.31	26.66	+20 − 6	17.85	35.42	− 8 −10
5	23.53	22.13	+ 4 + 9	44.21	22.15	+22 − 3	2.90	26.89	+14 − 9	18.24	35.75	−14 − 6
6	24.16	22.04	+14 + 8	44.89	22.24	+18 − 7	3.48	27.13	+ 5 −11	18.62	36.08	−17 − 2
7	24.79	21.96	+20 + 4	45.57	22.34	+10 −10	4.06	27.37	− 3 −10	18.99	36.41	−18 + 2
8	25.43	21.89	+23 0	46.25	22.44	+ 2 −11	4.64	27.61	−11 − 8	19.36	36.74	−15 + 6
9	26.07	21.82	+21 − 5	46.92	22.55	− 6 −10	5.21	27.85	−16 − 5	19.71	37.07	−10 + 9
10	26.71	21.75	+15 − 9	47.59	22.66	−13 − 7	5.77	28.10	−18 − 1	20.06	37.41	− 3 +11
11	27.36	21.69	+ 7 −10	48.26	22.78	−17 − 3	6.33	28.35	−18 + 4	20.40	37.75	+ 4 +11
12	28.01	21.64	− 1 −11	48.93	22.90	−19 + 1	6.89	28.61	−14 + 8	20.73	38.09	+10 + 9
13	28.66	21.59	− 9 − 9	49.60	23.03	−17 + 5	7.44	28.87	− 8 +10	21.06	38.43	+14 + 6
14	29.32	21.55	−15 − 6	50.27	23.16	−12 + 9	7.98	29.13	− 1 +11	21.37	38.78	+14 + 1
15	29.98	21.52	−18 − 2	50.93	23.30	− 6 +11	8.52	29.40	+ 6 +11	21.68	39.12	+11 − 3
16	30.64	21.49	−18 + 3	51.59	23.45	+ 2 +11	9.05	29.67	+12 + 8	21.97	39.47	+ 4 − 7
17	31.31	21.47	−15 + 7	52.25	23.60	+ 9 +10	9.58	29.95	+15 + 4	22.26	39.82	− 4 − 8
18	31.98	21.45	−10 +10	52.91	23.75	+14 + 6	10.10	30.23	+14 − 1	22.54	40.17	−12 − 8
19	32.65	21.44	− 3 +11	53.56	23.91	+16 + 2	10.61	30.51	+ 9 − 5	22.81	40.52	−19 − 5
20	33.32	21.44	+ 5 +11	54.21	24.08	+13 − 3	11.12	30.79	+ 2 − 8	23.08	40.87	−21 − 1
21	34.00	21.44	+12 + 8	54.86	24.25	+ 8 − 7	11.62	31.08	− 7 − 9	23.33	41.22	−18 + 3
22	34.67	21.44	+16 + 4	55.50	24.42	0 −10	12.11	31.37	−14 − 8	23.58	41.57	−11 + 7
23	35.35	21.46	+16 − 1	56.14	24.60	− 9 − 9	12.59	31.67	−19 − 4	23.82	41.92	− 1 + 9
24	36.03	21.48	+12 − 5	56.78	24.79	−16 − 7	13.07	31.97	−19 0	24.05	42.28	+ 9 + 8
25	36.71	21.50	+ 5 − 9	57.41	24.98	−19 − 3	13.54	32.27	−15 + 5	24.27	42.63	+18 + 6
26	37.39	21.53	− 3 −10	58.04	25.18	−18 + 2	14.00	32.57	− 6 + 8	24.48	42.98	+23 + 1
27	38.07	21.56	−12 − 9	58.66	25.38	−11 + 6	14.46	32.88	+ 3 + 9	24.68	43.34	+24 − 3
28	38.75	21.60	−18 − 5	59.28	25.58	− 2 + 9	14.91	33.19	+13 + 7	24.88	43.70	+21 − 8
29	39.43	21.65	−19 − 1	59.89	25.79	+ 7 + 9	15.35	33.50	+21 + 4	25.06	44.06	+13 −11
30	40.11	21.71	−16 + 4	60.50	26.00	+16 + 7	15.79	33.81	+24 0	25.23	44.42	+ 5 −12
31	40.79	21.77	− 9 + 8				16.22	34.13	+23 − 5	25.40	44.78	− 4 −11
32	41.47	21.83	+ 1 + 9				16.64	34.45	+17 − 9			

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 52′ 20″	26.934	−26.915	−87° 52′ 30″	26.969	−26.950	−87° 52′ 40″	27.004	−26.986
30	26.969	−26.950	40	27.004	−26.986	50	27.039	−27.021

$\alpha_{1932.0} = 14^h\ 52^m\ 52^s.80$ $\delta_{1932.0} = -87°\ 52'\ 33''.38$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Se) Octantis 20 G. $6^m.52$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
	$14^h\,53^m$	−87° 52′	in 0.01^s $0.01''$	$14^h\,53^m$	−87° 52′	in 0.01^s $0.01''$	$14^h\,53^m$	−87° 53′	in 0.01^s $0.01''$	$14^h\,52^m$	−87° 53′	in 0.01^s $0.01''$
1	25.40	44.78	−4 −11	25.80	55.91	−13 +6	17.96	4.25	+4 +10	63.70	8.76	+15 −2
2	25.55	45.14	−11 −8	25.66	56.23	−7 +9	17.58	4.47	+11 +9	63.18	8.82	+10 −6
3	25.70	45.50	−16 −4	25.51	56.55	0 +11	17.19	4.68	+15 +5	62.66	8.87	+2 −8
4	25.84	45.86	−17 0	25.35	56.87	+7 +10	16.80	4.89	+16 +1	62.14	8.92	−6 −9
5	25.97 / 26.08	46.22 / 46.58	−16 +4 / −11 +8	25.18	57.18	+12 +8	16.40	5.10	+13 −3	61.61	8.96	−14 −8
6	26.19	46.94	−5 +10	25.00	57.49	+15 +4	15.99	5.30	+7 −7	61.08	9.00	−20 −4
7	26.29	47.30	+1 +11	24.82	57.80	+15 0	15.58	5.50	−1 −9	60.55	9.03	−20 +1
8	26.38	47.66	+8 +10	24.63	58.11	+11 −5	15.16	5.69	−10 −9	60.02	9.05	−17 +5
9	26.47	48.02	+13 +7	24.42	58.41	+3 −8	14.74	5.88	−17 −6	59.49	9.07	−9 +9
10	26.54	48.38	+15 +3	24.21	58.71	−6 −9	14.31	6.06	−21 −2	58.96	9.08	+1 +10
11	26.60	48.73	+13 −2	24.00	59.01	−14 −7	13.87	6.24	−20 +3	58.43	9.09	+11 +9
12	26.65	49.08	+7 −6	23.77	59.31	−20 −4	13.43	6.41	−14 +7	57.90	9.09	+19 +5
13	26.70	49.43	−1 −8	23.54	59.60	−22 +1	12.98	6.58	−5 +10	57.38	9.09	+22 0
14	26.73	49.78	−10 −8	23.29	59.89	−19 +5	12.53	6.74	+5 +10	56.85	9.08	+21 −4
15	26.76	50.13	−17 −6	23.04	60.18	−11 +9	12.07	6.90	+15 +8	56.32	9.06	+16 −9
16	26.79	50.48	−22 −2	22.78	60.46	−1 +10	11.61	7.05	+21 +4	55.79	9.04	+8 −11
17	26.80	50.83	−21 +2	22.51	60.74	+10 +9	11.15	7.20	+23 −1	55.26	9.01	0 −11
18	26.79	51.18	−16 +6	22.24	61.01	+18 +6	10.68	7.34	+20 −6	54.73	8.98	−9 −10
19	26.78	51.53	−6 +9	21.95	61.28	+23 +1	10.21	7.48	+13 −10	54.20	8.94	−14 −6
20	26.76	51.88	+4 +9	21.66	61.55	+23 −4	9.73	7.61	+5 −12	53.67	8.90	−17 −2
21	26.73	52.23	+14 +8	21.36	61.82	+19 −8	9.25	7.74	−3 −12	53.14	8.85	−17 +2
22	26.70	52.57	+21 +4	21.05	62.08	+11 −11	8.76	7.86	−11 −9	52.61	8.79	−13 +6
23	26.65	52.91	+24 −1	20.74	62.34	+2 −12	8.27	7.98	−15 −5	52.09	8.73	−8 +9
24	26.59	53.25	+22 −6	20.41	62.59	−6 −11	7.77	8.09	−17 −1	51.57	8.66	−1 +10
25	26.52	53.59	+16 −10	20.08	62.84	−12 −8	7.27	8.19	−16 +4	51.05	8.59	+5 +10
26	26.45	53.93	+8 −12	19.75	63.09	−16 −4	6.77	8.29	−11 +7	50.53	8.51	+11 +8
27	26.36	54.26	−1 −12	19.41	63.33	−17 +1	6.27	8.38	−5 +10	50.02	8.42	+15 +5
28	26.27	54.59	−8 −10	19.06	63.57	−14 +5	5.76	8.47	+1 +10	49.51	8.33	+15 0
29	26.17	54.92	−14 −6	18.70	63.80	−9 +8	5.25	8.55	+8 +9	49.00	8.23	+12 −4
30	26.05	55.25	−16 −2	18.34	64.03	−3 +10	4.74	8.63	+13 +7	48.50	8.13	+5 −7
31	25.93	55.58	−16 +2	17.96	64.25	+4 +10	4.22	8.70	+16 +3	48.00	8.02	−3 −9
32	25.80	55.91	−13 +6				3.70	8.76	+15 −2	47.50	7.90	−11 −8

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 52′ 40″	27.004	−26.986	−87° 52′ 50″	27.039	−27.021	−87° 53′ 0″	27.075	−27.057
50	27.039	−27.021	60	27.075	−27.057	10	27.111	−27.092

$\alpha_{1932.0} = 14^h\ 52^m\ 52^s.80$ $\delta_{1932.0} = -87°\ 52'\ 33''.38$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sε) Octantis 20 G. $6^m.52$

Tag	September AR.	September Dekl.	September ☾ Glieder	Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	November AR.	November Dekl.	November ☾ Glieder	Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder
	$14^h 52^m$	$-87° 53'$	in 0.01^s $0.01''$	$14^h 52^m$	$-87° 52'$	in 0.01^s $0.01''$	$14^h 52^m$	$-87° 52'$	in 0.01^s $0.01''$	$14^h 52^m$	$-87° 52'$	in 0.01^s $0.01''$
1	47.50	7.90	−11 −8	35.20	62.17	−20 +2	30.91	53.07	+10 +9	37.10	44.29	+24 −2
2	47.00	7.78	−18 −6	34.91	61.91	−15 +6	30.95	52.76	+19 +5	37.48	44.04	+21 −7
3	46.52	7.66	−20 −1	34.62	61.65	−6 +9	31.00	52.45	+24 +1	37.86	43.79	+14 −11
4	46.04	7.53	−18 +3	34.35	61.39	+4 +9	*)31.07	52.14	+23 −5	38.26	43.54	+6 −13
5	45.56	7.39	−11 +7	34.09	61.12	+14 +7	31.14	51.83	+19 −9	38.66	43.30	−3 −12
6	45.08	7.25	−2 +9	33.83	60.85	+21 +4	31.23	51.52	+11 −12	39.08	43.06	−10 −9
7	44.61	7.11	+8 +9	33.58	60.57	+24 −1	31.33	51.21	+2 −12	39.51	42.82	−14 −5
8	44.14	6.96	+17 +6	33.35	60.29	+22 −6	31.44	50.90	−6 −11	39.95	42.59	−16 −1
9	43.68	6.80	+22 +2	33.12	60.01	+15 −10	31.56	50.59	−12 −8	40.39	42.36	−14 +3
10	43.22	6.64	+23 −3	32.90	59.73	+7 −12	31.69	50.28	−16 −3	40.84	42.14	−9 +7
11	42.77	6.47	+19 −7	32.69	59.44	−2 −12	31.84	49.97	−16 +1	41.30	41.92	−3 +9
12	42.32	6.30	+12 −11	32.50	59.15	−10 −9	31.99	49.67	−13 +5	41.77	41.70	+3 +10
13	41.88	6.13	+3 −12	32.31	58.86	−15 −5	32.16	49.37	−7 +8	42.25	41.49	+9 +9
14	41.45	5.95	−5 −10	32.14	58.57	−17 −1	32.34	49.07	−1 +10	42.74	41.28	+14 +6
15	41.02	5.76	−12 −8	31.98	58.28	−15 +3	32.53	48.77	+5 +10	43.23	41.08	+15 +2
16	40.60	5.57	−16 −4	31.82	57.98	−12 +7	32.73	48.47	+11 +8	43.73	40.88	+14 −2
17	40.19	5.37	−17 0	31.68	57.68	−6 +9	32.95	48.17	+14 +5	44.24	40.69	+9 −5
18	39.78	5.17	−14 +5	31.56	57.38	+1 +10	33.17	47.88	+15 +1	44.76	40.50	+1 −8
19	39.38	4.96	−10 +8	31.44	57.08	+7 +10	33.41	47.59	+11 −3	45.29	40.32	−8 −8
20	38.99	4.75	−4 +10	31.33	56.78	+12 +8	33.66	47.30	+5 −6	45.82	40.14	−16 −6
21	38.60	4.54	+3 +11	31.23	56.48	+14 +4	33.92	47.01	−3 −8	46.36	39.97	−22 −3
22	38.23	4.32	+9 +9	31.14	56.18	+13 0	34.19	46.73	−12 −7	46.91	39.80	−23 +2
23	37.86	4.10	+13 +6	31.07	55.87	+9 −4	34.47	46.45	−19 −5	47.47	39.64	−19 +7
24	37.49	3.87	+15 +2	31.00	55.56	+2 −7	34.76	46.17	−23 −1	48.03	39.49	−11 +10
25	37.14	3.64	+12 −2	30.95	55.25	−7 −8	35.06	45.89	−21 +4	48.60	39.34	0 +11
26	36.80	3.40	+7 −6	30.91	54.94	−15 −7	35.38	45.62	−15 +8	49.17	39.19	+10 +9
27	36.46	3.16	−1 −8	30.88	54.63	−20 −4	35.70	45.35	−6 +10	49.75	39.05	+18 +6
28	36.13	2.92	−9 −8	30.86	54.32	−22 0	36.03	45.08	+5 +10	50.34	38.91	+22 +1
29	35.81	2.67	−16 −7	30.86	54.01	−18 +5	36.38	44.81	+15 +7	50.94	38.78	+21 −5
30	35.50	2.42	−20 −3	30.86	53.70	−11 +8	36.74	44.55	+22 +3	51.54	38.65	+17 −8
31	35.20	2.17	−20 +2	30.88	53.38	0 +10	37.10	44.29	+24 −2	52.15	38.53	+9 −12
32				30.91	53.07	+10 +9				52.76	38.42	0 −12

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 52′ 30″	26.969	−26.950	−87° 52′ 50″	27.039	−27.021	−87° 53′ 0″	27.075	−27.057
40	27.004	−26.986	60	27.075	−27.057	10	27.111	−27.092

$\alpha_{1932.0} = 14^h\ 52^m\ 52^s.80$ $\delta_{1932.0} = -87°\ 52'\ 33''.38$

*) Tag der doppelten unteren Kulmination: Nov. 4

Obere Kulmination Greenwich

Sf) Octantis 26 G. $6^m.13$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$16^h 34^m$	−86° 14′	in $0^s.01$	in $0''.01$	$16^h 34^m$	−86° 14′	in $0^s.01$	in $0''.01$	$16^h 35^m$	−86° 14′	in $0^s.01$	in $0''.01$	$16^h 35^m$	−86° 14′	in $0^s.01$	in $0''.01$
1	$48^s.25$	$48''.12$	−9	−7	$58^s.50$	$42''.79$	−4	+9	$10^s.14$	$42''.12$	+6	+10	$22^s.18$	$45''.95$	+13	−5
2	48.52	47.88	−11	−3	58.88	42.70	+2	+10	10.55	42.18	+11	+7	22.54	46.14	+10	−8
3	48.79	47.65	−11	+3	59.26	42.61	+7	+9	10.96	42.24	+14	+3	22.89	46.33	+6	−10
4	49.07	47.42	−7	+7	59.65	42.52	+12	+6	11.37	42.30	+14	−2	23.24	46.53	0	−11
5	49.35	47.19	−2	+10	60.04	42.44	+13	+2	11.77	42.37	+12	−6	23.59	46.73	−4	−9
6	49.64	46.97	+4	+10	60.43	42.37	+13	−3	12.18	42.44	+8	−9	23.93	46.94	−8	−6
7	49.94	46.75	+9	+8	60.82	42.30	+10	−7	12.58	42.52	+3	−10	24.27	47.15	−11	−2
8	50.24	46.54	+12	+4	61.21	42.23	+6	−10	12.98	42.60	−2	−10	24.61	47.36	−11	+2
9	50.54	46.33	+14	0	61.61	42.17	+1	−11	13.38	42.69	−6	−8	24.94	47.58	−10	+7
10	50.84	46.12	+12	−5	62.01	42.12	−4	−9	13.78	42.78	−10	−4	25.27	47.80	−7	+10
11	51.15	45.92	+9	−8	62.41	42.07	−8	−7	14.18	42.88	−11	0	25.60	48.03	−3	+11
12	51.46	45.72	+4	−10	62.81	42.03	−11	−3	14.58	42.98	−11	+4	25.92	48.26	+1	+11
13	51.78	45.53	−1	−10	63.21	41.99	−12	+1	14.98	43.09	−9	+8	26.24	48.49	+5	+8
14	52.10	45.34	−5	−9	63.61	41.96	−11	+6	15.38	43.20	−6	+11	26.56	48.72	+7	+4
15	52.42	45.16	−9	−5	64.01	41.93	−8	+9	15.77	43.31	−2	+11	26.87	48.96	+7	−1
16	52.75	44.98	−11	−1	64.41	41.91	−4	+11	16.16	43.43	+3	+10	27.18	49.20	+6	−6
17	53.09	44.81	−11	+3	64.81	41.89	0	+11	16.55	43.56	+6	+7	27.49	49.44	+2	−9
18	53.43	44.64	−10	+7	65.22	41.88	+5	+9	16.94	43.69	+8	+2	27.79	49.69	−3	−10
19	53.77	44.47	−7	+10	65.63	41.87	+8	+5	17.33	43.82	+7	−3	28.09	49.94	−8	−9
20	54.11	44.31	−2	+11	66.04	41.87	+9	0	17.72	43.96	+5	−7	28.38	50.19	−11	−5
21	54.46	44.16	+3	+10	66.45	41.87	+8	−5	18.10	44.10	+1	−10	28.67	50.45	−11	−1
22	54.81	44.01	+7	+7	66.86	41.88	+4	−9	18.48	44.25	−4	−10	28.95	50.71	−9	+4
23	55.16	43.87	+9	+3	67.27	41.89	−1	−11	18.86	44.40	−8	−8	29.23	50.97	−4	+8
24	55.52	43.73	+9	−2	67.68	41.91	−5	−10	19.24	44.55	−11	−4	29.51	51.23	+1	+10
25	55.88	43.60	+7	−7	68.09	41.93	−9	−7	19.62	44.71	−10	+1	29.78	51.50	+7	+9
26	56.25	43.47	+3	−10	68.50	41.96	−10	−2	19.99	44.88	−7	+6	30.05	51.77	+12	+6
27	56.62	43.34	−3	−11	68.91	41.99	−9	+3	20.36	45.05	−2	+9	30.32	52.04	+15	+2
28	56.99	43.22	−7	−9	69.32	42.03	−5	+8	20.73	45.22	+4	+10	30.58	52.32	+15	−3
29	57.36	43.11	−10	−5	69.73	42.07	0	+10	21.10	45.40	+9	+8	30.84	52.60	+12	−7
30	57.74	43.00	−11	0	70.14	42.12	+6	+10	21.46	45.58	+13	+5	31.09	52.88	+8	−10
31	58.12	42.89	−8	+5					21.82	45.76	+15	0	31.34	53.16	+3	−11
32	58.50	42.79	−4	+9					22.18	45.95	+13	−5				

δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 40″	15.267	−15.234	−86° 14′ 50″	15.278	−15.246
50	15.278	−15.246	60	15.290	−15.257

$\alpha_{1932.0} = 16^h\ 35^m\ 9^s.24$ $\delta_{1932.0} = -86°\ 14'\ 50''.23$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sf) Octantis 26 G. $6^m.13$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$16^h 35^m$	$-86° 14'$	in 0.01^s	in $0.01''$	$16^h 35^m$	$-86° 15'$	in 0.01^s	in $0.01''$	$16^h 35^m$	$-86° 15'$	in 0.01^s	in $0.01''$	$16^h 35^m$	$-86° 15'$	in 0.01^s	in $0.01''$
1	31.34	53.16	+3	−11	36.63	3.03	−10	+3	36.54	12.38	−2	+10	31.49	19.78	+9	+1
2	31.58	53.44	−2	−10	36.71	3.36	−8	+7	36.45	12.66	+2	+10	31.25	19.96	+8	−3
3	31.82	53.73	−6	−7	36.78	3.69	−5	+10	36.35	12.94	+6	+8	31.01	20.13	+5	−8
4	32.05	54.02	−10	−4	36.85	4.02	−1	+11	36.25	13.22	+8	+4	30.77	20.30	+1	−10
5	32.28	54.31	−11	+1	36.91	4.34	+3	+10	36.15	13.50	+9	0	30.53	20.46	−4	−10
6	32.50	54.61	−10	+5	36.97	4.66	+6	+7	36.04	13.78	+7	−5	30.28	20.61	−9	−8
7	32.72	54.91	−8	+8	37.02	4.98	+8	+2	35.92	14.05	+3	−9	30.03	20.76	−11	−4
8	32.94	55.21	−4	+10	37.06	5.30	+8	−2	35.80	14.32	−2	−10	29.78	20.91	−11	+2
9	33.15	55.51	0	+11	37.10	5.62	+5	−7	35.68	14.59	−7	−9	29.53	21.05	−9	+6
10	33.35	55.81	+4	+9	37.13	5.94	+1	−9	35.55	14.85	−11	−6	29.27	21.19	−4	+10
11	33.55	56.11	+7	+6	37.16	6.26	−4	−10	35.41	15.11	−13	−1	29.01	21.32	+2	+11
12	33.75	56.41	+8	+1	37.18	6.57	−9	−8	35.27	15.37	−11	+4	28.74	21.45	+8	+9
13	33.94	56.71	+7	−4	37.20	6.89	−12	−4	35.12	15.63	−7	+8	28.47	21.57	+12	+5
14	34.12	57.01	+3	−8	37.21	7.21	−13	+1	34.97	15.88	−2	+11	28.20	21.68	+14	0
15	34.30	57.32	−1	−10	37.21	7.52	−10	+6	34.81	16.13	+4	+10	27.93	21.79	+13	−5
16	34.47	57.63	−7	−10	37.21	7.83	−5	+9	34.65	16.37	+10	+8	27.66	21.90	+10	−8
17	34.64	57.94	−11	−7	37.21	8.14	+1	+11	34.49	16.61	+13	+3	27.38	22.00	+5	−11
18	34.81	58.25	−13	−2	37.20	8.45	+7	+9	34.32	16.85	+14	−2	27.10	22.09	0	−11
19	34.97	58.56	−11	+3	37.18	8.76	+12	+6	34.15	17.09	+12	−6	26.82	22.18	−5	−9
20	35.12	58.87	−8	+7	37.16	9.07	+14	+1	33.97	17.32	+8	−10	26.54	22.27	−8	−6
21	35.27	59.19	−2	+10	37.13	9.38	+14	−4	33.79	17.55	+3	−11	26.26	22.35	−10	−1
22	35.41	59.51	+4	+10	37.09	9.69	+11	−8	33.60	17.77	−2	−10	25.97	22.42	−10	+3
23	35.55	59.83	+10	+8	37.05	10.00	+7	−11	33.40	17.99	−6	−8	25.68	22.49	−9	+7
24	35.68	60.15	+14	+4	37.00	10.31	+2	−11	33.20	18.21	−9	−4	25.39	22.56	−6	+9
25	35.81	60.47	+15	−1	36.95	10.61	−3	−10	33.00	18.42	−10	0	25.10	22.61	−2	+11
26	35.93	60.79	+13	−6	36.89	10.91	−7	−7	32.80	18.63	−10	+4	24.81	22.66	+2	+10
27	36.05	61.11	+10	−9	36.83	11.21	−10	−3	32.59	18.83	−8	+8	24.52	22.71	+6	+7
28	36.16	61.43	+5	−11	36.77	11.51	−10	+2	32.38	19.03	−4	+10	24.22	22.75	+8	+3
29	36.27	61.75	0	−11	36.70	11.80	−9	+6	32.16	19.22	0	+11	23.92	22.78	+8	−1
30	36.37	62.07	−5	−9	36.62	12.09	−6	+9	31.94	19.41	+4	+9	23.62	22.81	+6	−6
31	{36.46 {36.55	62.39 62.71	−8 −10	−5} −1}	36.54	12.38	−2	+10	31.72	19.60	+7	+6	23.32	22.83	+2	−9
32	36.63	63.03	−10	+3					31.49	19.78	+9	+1	23.02	22.85	−2	−10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 50″	15.278	−15.246	−86° 15′ 0″	15.290	−15.257	−86° 15′ 20″	15.312	−15.280
60	15.290	−15.257	10	15.301	−15.268	30	15.324	−15.291

$\alpha_{1932.0} = 16^h\ 35^m\ 9^s.24 \qquad \delta_{1932.0} = -86°\ 14'\ 50''.23$

Obere Kulmination Greenwich

Sf) Octantis 26 G. $6^m.13$

Tag	September			Oktober			November			Dezember		
	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder	AR.	Dekl.	☾ Glieder
	$16^h 35^m$	−86° 15′	in $0^s.01$ $0''.01$	$16^h 35^m$	−86° 15′	in $0^s.01$ $0''.01$	$16^h 35^m$	−86° 15′	in $0^s.01$ $0''.01$	$16^h 35^m$	−86° 14′	in $0^s.01$ $0''.01$
1	$23^s.02$	$22''.85$	−2 −10	$14^s.32$	$20''.63$	−12 −3	$8^s.21$	$13''.57$	+2 +11	$7^s.61$	$64''.35$	+14 +3
2	22.72	22.86	−7 −9	14.06	20.47	−11 +2	8.09	13.28	+8 +9	7.70	64.04	+15 −2
3	22.42	22.86	−10 −5	13.80	20.30	−7 +7	7.98	12.99	+13 +6	7.79	63.73	+13 −7
4	22.12	22.86	−11 −1	13.55	20.13	−2 +10	7.88	12.70	+15 +1	7.88	63.42	+9 −10
5	21.82	22.85	−10 +5	13.30	19.95	+5 +10	7.79	12.41	+15 −4	7.98	63.11	+4 −12
6	21.52	22.83	−5 +8	13.05	19.77	+10 +8	7.70	12.12	+12 −9	8.09	62.80	−1 −11
7	21.22	22.81	0 +10	12.81	19.59	+14 +4	7.61	11.82	+7 −11	8.21	62.49	−5 −8
8	20.92	22.79	+6 +10	12.57	19.40	+15 −1	7.54	11.52	+2 −11	8.33	62.18	−8 −4
9	20.62	22.76	+11 +7	12.34	19.21	+13 −6	7.47	11.22	−3 −10	8.46	61.88	−9 0
10	20.32	22.72	+14 +2	12.11	19.01	+9 −10	7.41	10.92	−7 −6	8.60	61.57	−8 +5
11	20.02	22.68	+14 −3	11.88	18.80	+4 −11	7.35	10.61	−9 −2	8.74	61.27	−6 +8
12	19.72	22.63	+11 −7	11.65	18.59	−1 −11	7.30	10.30	−9 +2	8.89	60.97	−3 +10
13	19.42	22.58	+7 −10	11.43	18.37	−5 −8	7.26	9.99	−8 +6	9.05	60.67	+1 +10
14	19.12	22.52	+2 −11	11.22	18.15	−9 −5	7.22	9.68	−5 +9	9.21	60.37	+5 +8
15	18.82	22.45	−3 −10	11.01	17.93	−10 0	7.19	9.37	−2 +11	9.38	60.08	+7 +5
16	18.53	22.38	−7 −7	10.80	17.70	−10 +4	7.17	9.06	+2 +10	9.55	59.79	+8 +1
17	18.24	22.31	−10 −3	10.60	17.47	−8 +8	7.15	8.75	+5 +8	9.73	59.50	+7 −3
18	17.95	22.22	−10 +1	10.41	17.24	−4 +10	7.14	8.44	+7 +4	9.92	59.22	+4 −7
19	17.66	22.13	−9 +6	10.22	17.00	−1 +11	7.14	8.13	+7 0	10.11	58.94	−1 −10
20	17.37	22.04	−7 +9	10.03	16.76	+3 +10	7.14	7.81	+5 −5	10.31	58.66	−6 −9
21	17.08	21.94	−3 +11	9.85	16.51	+6 +7	7.15	7.49	+2 −8	10.52	58.38	−11 −7
22	16.79	21.83	0 +11	9.67	16.26	+7 +3	7.17	7.17	−3 −10	10.73	58.11	−13 −3
23	16.51	21.72	+4 +9	9.50	16.00	+7 −2	7.19	6.85	−8 −9	10.95	57.84	−13 +2
24	16.23	21.60	+7 +5	9.33	15.74	+4 −6	7.22	6.53	−12 −6	11.17	57.57	−10 +7
25	15.95	21.48	+8 +1	9.17	15.48	0 −9	7.26	6.21	−13 −1	11.40	57.30	−5 +10
26	15.67	21.35	+7 −4	9.02	15.22	−5 −10	7.30	5.90	−12 +4	11.63	57.04	+1 +11
27	15.40	21.22	+3 −8	8.87	14.95	−9 −8	7.35	5.59	−8 +8	11.87	56.78	+7 +9
28	15.13	21.08	−1 −10	8.73	14.68	−12 −4	7.41	5.28	−2 +10	12.11	56.53	+12 +5
29	14.86	20.94	−6 −10	8.59	14.41	−12 +1	7.47	4.97	+5 +10	12.36	56.28	+14 0
30	14.59	20.79	−10 −7	8.46	14.14	−10 +6	*)7.54	4.66	+10 +8	12.62	56.03	+13 −5
31	14.32	20.63	−12 −3	8.33	13.86	−5 +9	7.61	4.35	+14 +3	12.88	55.78	+10 −9
32				8.21	13.57	+2 +11				13.15	55.54	+6 −11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 14′ 50″	15.278	−15.246	−86° 15′ 0″	15.290	−15.257	−86° 15′ 20″	15.312	−15.280
60	15.290	−15.257	10	15.301	−15.268	30	15.324	−15.291

$\alpha_{1932.0} = 16^h\ 35^m\ 9^s.24$ $\delta_{1932.0} = -86°\ 14'\ 50''.23$

*) Tag der doppelten unteren Kulmination: Nov. 30

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sg) χ Octantis $5^m.22$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h\ 14^m$	— $87°\ 39'$	in 0.01^s	in $0.01''$	$18^h\ 14^m$	— $87°\ 39'$	in 0.01^s	in $0.01''$	$18^h\ 15^m$	— $87°\ 39'$	in 0.01^s	in $0.01''$	$18^h\ 15^m$	— $87°\ 39'$	in 0.01^s	in $0.01''$
1	$35^s.47$	$46''.50$	− 9	−10	$46^s.37$	$37''.52$	−11	+ 7	$2^s.64$	$32''.17$	+ 2	+11	$22^s.65$	$30''.73$	+22	0
2	35.69	46.18	−15	− 6	46.85	37.28	− 4	+10	3.26	32.05	+10	+11	23.30	30.76	+20	− 4
3	35.92	45.86	−17	− 1	47.34	37.04	+ 5	+11	3.89	31.94	+17	+ 8	23.95	30.80	+14	− 8
4	36.16	45.54	−15	+ 4	47.84	36.80	+13	+10	4.52	31.83	+21	+ 3	24.59	30.84	+ 7	−10
5	36.40	45.22	− 9	+ 9	48.34	36.57	+18	+ 6	5.15	31.72	+20	− 2	25.23	30.89	− 1	−10
6	36.64	44.90	− 1	+11	48.85	36.34	+20	+ 1	5.78	31.62	+17	− 6	25.87	30.94	− 8	− 8
7	36.89	44.58	+ 8	+11	49.37	36.12	+19	− 3	6.42	31.53	+11	− 9	26.51	30.99	−14	− 5
8	37.16	44.28	+15	+ 8	49.89	35.90	+15	− 7	7.06	31.44	+ 3	−10	27.15	31.05	−17	− 1
9	37.45	43.97	+19	+ 4	50.42	35.68	+ 8	−10	7.70	31.35	− 4	−10	27.78	31.11	−18	+ 3
10	37.74	43.66	+20	0	50.95	35.47	+ 1	−10	8.34	31.27	−11	− 8	28.41	31.18	−16	+ 7
11	38.04	43.35	+18	− 5	51.49	35.26	− 7	− 9	8.98	31.20	−16	− 4	29.04	31.25	−12	+ 9
12	38.35	43.04	+12	− 8	52.03	35.06	−14	− 6	9.62	31.13	−19	0	29.67	31.33	− 5	+10
13	38.67	42.74	+ 5	−10	52.58	34.86	−18	− 3	10.27	31.06	−18	+ 4	30.29	31.41	+ 2	+ 9
14	39.00	42.44	− 2	−10	53.14	34.67	−19	+ 2	10.92	31.00	−15	+ 8	30.91	31.50	+ 8	+ 6
15	39.34	42.14	−10	− 8	53.70	34.48	−18	+ 6	11.57	30.95	−10	+10	31.53	31.59	+11	+ 2
16	39.69	41.84	−15	− 5	54.27	34.30	−13	+ 9	12.22	30.90	− 3	+10	32.14	31.69	+11	− 4
17	40.05	41.55	−18	− 1	54.84	34.12	− 6	+10	12.87	30.85	+ 4	+ 8	32.75	31.79	+ 8	− 8
18	40.41	41.26	−19	+ 3	55.41	33.94	+ 1	+10	13.52	30.81	+10	+ 4	33.36	31.89	+ 2	−11
19	40.78	40.97	−16	+ 7	55.99	33.77	+ 8	+ 7	14.17	30.77	+13	0	33.96	32.00	− 5	−11
20	41.17	40.69	−10	+10	56.57	33.60	+13	+ 3	14.82	30.74	+12	− 5	34.56	32.11	−12	− 9
21	41.56	40.41	− 3	+10	57.16	33.44	+14	− 2	15.47	30.71	+ 7	− 9	35.16	32.23	−16	− 4
22	41.95	40.13	+ 5	+ 9	57.75	33.28	+12	− 7	16.12	30.69	0	−11	35.75	32.35	−16	+ 1
23	42.36	39.85	+11	+ 6	58.35	33.12	+ 6	−10	16.78	30.67	− 7	−10	36.34	32.47	−12	+ 6
24	42.78	39.58	+15	+ 1	58.95	32.97	− 1	−11	17.44	30.66	−12	− 7	36.93	32.60	− 4	+10
25	43.20	39.31	+14	− 5	59.56	32.83	− 9	− 9	18.10	30.65	−15	− 2	37.51	32.73	+ 5	+11
26	43.63	39.04	+10	− 9	60.17	32.69	−14	− 5	18.75	30.65	−14	+ 3	38.08	32.87	+13	+10
27	44.07	38.78	+ 3	−11	60.78	32.55	−15	0	19.40	30.65	− 8	+ 8	38.65	33.01	+20	+ 7
28	44.51	38.52	− 5	−11	61.40	32.42	−12	+ 6	20.05	30.65	0	+11	39.22	33.16	+23	+ 2
29	44.97	38.26	−12	− 8	62.02	32.29	− 6	+10	20.70	30.66	+ 8	+11	39.78	33.31	+22	− 3
30	45.43	38.01	−15	− 3	62.64	32.17	+ 2	+11	21.35	30.68	+16	+ 9	40.34	33.47	+17	− 7
31	45.89	37.76	−15	+ 2					22.00	30.70	+21	+ 5	40.89	33.63	+11	− 9
32	46.37	37.52	−11	+ 7					22.65	30.73	+22	0				

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 30″	24.475	−24.454	−87° 39′ 40″	24.504	−24.483
40	24.504	−24.483	50	24.533	−24.513

$\alpha_{1932.0} = 18^h\ 15^m\ 7^s.54$ $\delta_{1932.0} = -87°\ 39'\ 39''.78$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sy) χ Octantis $5^m.22$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h 15^m$	−87° 39′	in 0.01 s	in 0.01 ″	$18^h 15^m$	−87° 39′	in 0.01 s	in 0.01 ″	$18^h 15^m$	−87° 39′	in 0.01 s	in 0.01 ″	$18^h 15^m$	−87° 39′	in 0.01 s	in 0.01 ″
1	40.89	33.63	+11	−9	55.09	40.34	−14	−4	61.78	49.34	−10	+9	59.60	58.37	+12	+4
2	41.44	33.79	+3	−10	55.43	40.61	−16	0	61.85	49.65	−4	+10	59.38	58.63	+14	0
3	41.99	33.96	−5	−9	55.77	40.88	−16	+4	61.91	49.96	+3	+9	59.16	58.89	+12	−5
4	42.53	34.13	−11	−7	56.10	41.15	−14	+8	61.96	50.27	+9	+7	58.93	59.15	+8	−9
5	43.06	34.31	−16	−3	56.42	41.42	−8	+10	62.00	50.57	+13	+2	58.69	59.40	0	−11
6	43.59	34.49	−17	+1	56.73	41.69	−2	+10	62.03	50.87	+13	−2	58.44	59.65	−8	−10
7	44.12	34.67	−16	+5	57.04	41.97	+5	+9	62.05	51.17	+10	−7	58.18	59.90	−14	−7
8	44.63	34.86	−13	+8	57.33	42.25	+10	+5	62.07	51.47	+4	−10	57.92	60.14	−17	−2
9	45.14	35.05	−7	+10	57.62	42.53	+13	0	62.07	51.77	−4	−11	57.64	60.38	−16	+3
10	45.65	35.24	0	+10	57.90	42.81	+12	−5	62.07	52.07	−11	−9	57.36	60.62	−11	+8
11	46.15	35.44	+6	+8	58.17	43.09	+7	−9	62.05	52.37	−17	−5	57.07	60.85	−3	+11
12	46.64	35.64	+10	+3	58.44	43.38	0	−11	62.03	52.67	−18	0	56.77	61.08	+6	+11
13	47.13	35.84	+12	−1	58.69	43.67	−8	−11	61.99	52.97	−16	+5	56.47	61.30	+14	+9
14	47.61	36.05	+10	−6	58.93	43.96	−15	−8	61.95	53.27	−9	+9	56.16	61.52	+19	+5
15	48.09	36.26	+4	−10	59.17	44.25	−19	−3	61.90	53.57	0	+11	55.84	61.74	+21	0
16	48.56	36.48	−3	−11	59.40	44.54	−18	+2	61.84	53.87	+9	+11	55.52	61.96	+19	−5
17	49.02	36.70	−11	−10	59.62	44.83	−13	+8	61.76	54.16	+16	+8	55.19	62.17	+14	−8
18	49.47	36.92	−16	−6	59.82	45.12	−5	+10	61.68	54.45	+21	+3	54.85	62.38	+6	−10
19	49.92	37.14	−18	−1	60.02	45.42	+4	+11	61.59	54.74	+21	−2	54.50	62.58	−1	−10
20	50.36	37.37	−15	+4	60.21	45.72	+13	+10	61.49	55.03	+19	−6	54.14	62.78	−8	−8
21	50.80	37.60	−9	+9	60.39	46.02	+19	+6	61.39	55.32	+11	−9	53.78	62.98	−13	−5
22	51.23	37.84	0	+11	60.57	46.32	+22	+1	61.27	55.61	+4	−10	53.41	63.17	−16	−1
23	51.65	38.08	+9	+11	60.73	46.62	+21	−4	61.14	55.90	−4	−9	53.04	63.35	−17	+3
24	52.06	38.32	+17	+8	60.88	46.92	+16	−8	61.01	56.18	−10	−7	52.66	63.53	−14	+7
25	52.46	38.56	+22	+4	61.03	47.22	+9	−10	60.86	56.46	−15	−3	52.27	63.71	−9	+9
26	52.86	38.81	+23	−1	61.16 / 61.29	47.52 / 47.82	+1 / −6	−10 / −9	60.71	56.74	−16	+1	51.88	63.88	−3	+10
27	53.25	39.06	+20	−5	61.40	48.12	−12	−6	60.55	57.02	−16	+5	51.48	64.05	+3	+9
28	53.63	39.31	+14	−9	61.51	48.42	−15	−2	60.38	57.29	−12	+8	51.08	64.21	+9	+6
29	54.01	39.56	+6	−10	61.61	48.72	−16	+2	60.20	57.56	−7	+10	50.67	64.37	+13	+1
30	54.38	39.82	−2	−10	61.70	49.03	−15	+6	60.01	57.83	0	+10	50.25	64.53	+13	−3
31	54.74	40.08	−8	−8	61.78	49.34	−10	+9	59.81	58.10	+7	+8	49.83	64.68	+9	−8
32	55.09	40.34	−14	−4					59.60	58.37	+12	+4	49.40	64.82	+3	−11

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 30″	24.475	−24.454	−87° 39′ 50″	24.533	−24.513	−87° 40′ 0″	24.562	−24.542
40	24.504	−24.483	60	24.562	−24.542	10	24.591	−24.571

$\alpha_{1932.0} = 18^h\ 15^m\ 7^s.54$ $\delta_{1932.0} = -87°\ 39'\ 39''.78$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sg) χ Octantis $5^m.22$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$18^h 15^m$	−87° 40′	in 0.01 s	in 0.01″	$18^h 15^m$	−87° 40′	in 0.01 s	in 0.01″	$18^h 15^m$	−87° 39′	in 0.01 s	in 0.01″	$18^h 15^m$	−87° 39′	in 0.01 s	in 0.01″
1	49.40	4.82	+ 3	−11	35.15	6.51	−15	− 6	21.17	62.70	− 4	+11	13.60	54.66	+18	+ 8
2	48.97	4.96	− 4	−11	34.66	6.48	−17	− 1	20.80	62.49	+ 6	+12	13.49	54.34	+23	+ 3
3	48.54	5.09	−11	− 9	34.17	6.44	−15	+ 4	20.43	62.27	+14	+10	13.40	54.02	+23	− 2
4	48.10	5.22	−16	− 4	33.68	6.39	− 9	+ 9	20.08	62.05	+21	+ 6	13.31	53.70	+19	− 7
5	47.66	5.34	−16	+ 1	33.19	6.33	0	+11	19.73	61.83	+23	+ 1	13.24	53.38	+13	− 9
6	47.21	5.46	−13	+ 6	32.70	6.27	+ 9	+11	19.38	61.60	+22	− 4	13.17	53.06	+ 5	−10
7	46.76	5.57	− 6	+10	32.21	6.21	+17	+ 8	19.05	61.37	+16	− 8	13.12	52.74	− 3	− 9
8	46.30	5.67	+ 3	+11	31.72	6.14	+22	+ 4	18.72	61.13	+ 9	−10	13.07	52.41	− 9	− 6
9	45.84	5.77	+12	+10	31.23	6.06	+22	− 1	18.40	60.89	+ 1	−10	13.04	52.08	−13	− 3
10	45.37	5.87	+18	+ 7	30.75	5.98	+19	− 6	18.09	60.64	− 6	− 8	13.02	51.75	−15	+ 2
11	44.90	5.96	+21	+ 2	30.27	5.89	+13	− 9	17.79	60.39	−12	− 5	13.00	51.42	−13	+ 5
12	44.43	6.04	+21	− 3	29.79	5.80	+ 5	−10	17.49	60.13	−15	− 1	13.00	51.09	−10	+ 8
13	43.96	6.12	+17	− 7	29.32	5.70	− 2	−10	17.20	59.87	−15	+ 3	13.01	50.76	− 5	+10
14	43.49	6.19	+ 9	−10	28.85	5.59	− 9	− 7	16.93	59.61	−13	+ 7	13.03	50.43	+ 1	+10
15	43.01	6.26	+ 2	−10	28.39	5.47	−14	− 4	16.66	59.35	− 9	+ 9	13.06	50.10	+ 7	+ 8
16	42.53	6.32	− 6	− 9	27.93	5.35	−16	+ 1	16.39	59.08	− 3	+10	13.10	49.77	+11	+ 4
17	42.05	6.37	−12	− 6	27.47	5.23	−16	+ 4	16.14	58.81	+ 3	+ 9	13.15	49.44	+12	− 1
18	41.56	6.42	−16	− 2	27.01	5.10	−13	+ 8	15.90	58.53	+ 8	+ 6	13.22	49.10	+10	− 5
19	41.07	6.46	−17	+ 2	26.56	4.96	− 8	+10	15.66	58.25	+11	+ 2	13.29	48.76	+ 5	− 9
20	40.58	6.50	−15	+ 6	26.11	4.82	− 2	+10	15.43	57.97	+11	− 3	13.37	48.42	− 3	−11
21	40.09	6.53	−12	+ 9	25.67	4.67	+ 4	+ 8	15.22	57.68	+ 8	− 7	13.47	48.08	−11	−10
22	39.60	6.55	− 6	+10	25.24	4.52	+ 9	+ 5	15.01	57.39	+ 1	−10	13.57	47.75	−17	− 7
23	39.11	6.57	0	+10	24.81	4.36	+11	0	14.82	57.10	− 6	−11	13.69	47.42	−20	− 2
24	38.62	6.58	+ 6	+ 7	24.38	4.20	+10	− 5	14.63	56.80	−13	−10	13.81	47.09	−19	+ 3
25	38.13	6.59	+10	+ 3	23.96	4.03	+ 6	− 9	14.46	56.50	−18	− 6	*)13.95	46.76	−14	+ 8
26	37.64	6.59	+12	− 2	23.55	3.86	− 1	−11	14.29	56.20	−19	0	14.09	46.43	− 5	+11
27	37.14	6.59	+10	− 6	23.14	3.68	− 8	−11	14.13	55.90	−16	+ 5	14.25	46.10	+ 5	+11
28	36.64	6.58	+ 5	−10	22.73	3.49	−14	− 8	13.99	55.59	− 9	+ 9	14.42	45.77	+14	+ 9
29	36.14	6.56	− 2	−11	22.33	3.30	−18	− 3	13.85	55.28	0	+11	14.60	45.44	+20	+ 5
30	35.64	6.54	− 9	−10	21.94	3.11	−17	+ 2	13.72	54.97	+10	+11	14.79	45.11	+22	0
31	35.15	6.51	−15	− 6	21.55	2.91	−12	+ 7	13.60	54.66	+18	+ 8	14.99	44.78	+20	− 5
32					21.17	2.70	− 4	+11					15.20	44.45	+15	− 9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 40″	24.504	−24.483	−87° 39′ 50″	24.533	−24.513	−87° 40′ 0″	24.562	−24.542
50	24.533	−24.513	60	24.562	−24.542	10	24.591	−24.571

$\alpha_{1932.0} = 18^h\ 15^m\ 7^s.54$ $\delta_{1932.0} = -87°\ 39'\ 39''.78$

*) Tag der doppelten unteren Kulmination: Dez. 25

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sh) σ Octantis $5^m.48$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder in 0.01 s	Januar ☾ Glieder in 0.01 "	Februar AR.	Februar Dekl.	Februar ☾ Glieder in 0.01 s	Februar ☾ Glieder in 0.01 "	März AR.	März Dekl.	März ☾ Glieder in 0.01 s	März ☾ Glieder in 0.01 "	April AR.	April Dekl.	April ☾ Glieder in 0.01 s	April ☾ Glieder in 0.01 "
	$19^h 49^m$	—89° 11′			$19^h 49^m$	—89° 11′			$19^h 49^m$	—89° 11′			$19^h 50^m$	—89° 11′		
1	13.86	36.46	— 4	—11	24.91	25.52	—41	+ 4	57.20	16.62	—15	+11	46.90	10.41	+55	+ 5
2	13.79	36.12	—26	— 9	25.70	25.18	—29	+ 9	58.61	16.36	+ 7	+12	48.65	10.28	+57	0
3	13.74	35.77	—41	— 4	26.52	24.85	— 8	+11	60.04	16.10	+29	+11	50.40	10.15	+50	— 4
4	13.73	35.41	—46	+ 1	27.37	24.51	+14	+12	61.48	15.85	+46	+ 7	52.16	10.03	+36	— 8
5	13.76	35.06	—38	+ 6	28.24	24.17	+35	+10	62.94	15.60	+56	+ 3	53.92	9.92	+16	— 9
6	13.80	34.70	—22	+10	29.14	23.84	+49	+ 6	64.41	15.35	+53	— 2	55.69	9.81	— 6	— 9
7	13.87	34.35	0	+12	30.06	23.51	+54	+ 1	65.90	15.11	+43	— 6	57.46	9.70	—26	— 8
8	13.96	33.99	+23	+11	31.00	23.18	+49	— 3	67.40	14.87	+27	— 9	59.24	9.60	—42	— 5
9	14.09	33.64	+41	+ 8	31.97	22.85	+37	— 7	68.92	14.63	+ 7	—10	61.02	9.50	—52	— 1
10	14.25	33.28	+52	+ 4	32.96	22.53	+19	— 9	70.45	14.40	—15	— 9	62.80	9.41	—53	+ 3
11	14.44	32.92	+54	— 1	33.98	22.20	— 2	—10	72.00	14.17	—34	— 7	64.59	9.32	—47	+ 6
12	14.65	32.57	+46	— 5	35.01	21.88	—23	— 9	73.55	13.95	—48	— 4	66.37	9.24	—32	+ 8
13	14.90	32.21	+31	— 8	36.07	21.57	—40	— 6	75.12	13.73	—55	0	68.16	9.16	—12	+ 9
14	15.17	31.86	+12	—10	37.15	21.25	—52	— 3	76.71	13.52	—53	+ 4	69.95	9.09	+ 9	+ 7
15	15.48	31.50	— 9	—10	38.25	20.94	—55	+ 1	78.30	13.31	—43	+ 7	71.74	9.02	+28	+ 4
16	15.81	31.14	—30	— 8	39.37	20.63	—49	+ 5	79.90	13.10	—25	+ 9	73.53	8.96	+36	— 1
17	16.18	30.79	—45	— 5	40.52	20.33	—35	+ 8	81.52	12.90	— 3	+ 9	75.31	8.90	+35	— 6
18	16.57	30.43	—54	— 1	41.68	20.02	—15	+ 9	83.15	12.70	+18	+ 6	77.10	8.85	+25	—10
19	*)16.98	30.08	—53	+ 3	42.87	19.72	+ 8	+ 8	84.79	12.51	+33	+ 2	78.89	8.80	+ 7	—11
20	17.43	29.72	—44	+ 7	44.08	19.42	+28	+ 5	86.44	12.32	+40	— 3	80.68	8.76	—14	—11
21	17.90	29.37	—26	+ 9	45.31	19.13	+41	+ 1	88.10	12.14	+36	— 6	82.46	8.72	—32	— 7
22	18.40	29.01	— 3	+ 9	46.55	18.84	+43	— 4	89.77	11.96	+22	—10	84.24	8.69	—42	— 2
23	18.93	28.66	+19	+ 8	47.82	18.55	+34	— 8	91.45	11.78	+ 2	—11	86.02	8.66	—41	+ 4
24	19.49	28.30	+38	+ 4	49.11	18.26	+17	—11	93.14	11.61	—18	— 9	87.80	8.64	—29	+ 8
25	20.07	27.95	+45	— 1	50.41	17.98	— 5	—11	94.83	11.44	—35	— 5	89.58	8.62	— 9	+12
26	20.68	27.60	+42	— 6	51.74	17.70	—25	— 8	96.54	11.28	—41	0	91.35	8.61	+15	+12
27	21.32	27.25	+29	—10	53.08	17.42	—39	— 3	98.25	11.12	—36	+ 6	93.12	8.60	+38	+11
28	21.99	26.90	+ 8	—11	54.43	17.15	—41	+ 3	99.97	10.97	—21	+10	94.88	8.60	+53	+ 7
29	22.68	26.55	—15	—10	55.81	16.88	—32	+ 8	101.69	10.82	0	+12	96.64	8.60	+60	+ 2
30	23.40	26.21	—33	— 6	57.20	16.62	—15	+11	103.42	10.68	+23	+12	98.40	8.61	+56	— 2
31	24.14	25.87	—43	— 1					105.16	10.54	+43	+ 9	100.15	8.62	+44	— 6
32	24.91	25.52	—41	+ 4					106.90	10.41	+55	+ 5				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
—89° 11′ 0″	70.160	—70.153	—89° 11′ 20″	70.641	—70.634	—89° 11′ 30″	70.884	—70.877
10	70.400	—70.393	30	70.884	—70.877	40	71.128	—71.121

$\alpha_{1932.0} = 19^h\ 50^m\ 26^s.12$ $\delta_{1932.0} = -89°\ 11'\ 22''.46$

*) Tag der doppelten unteren Kulmination: Jan. 19

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sh) σ Octantis $5^{m}.48$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder	Juni AR.	Juni Dekl.	Juni ☾ Glieder	Juli AR.	Juli Dekl.	Juli ☾ Glieder	August AR.	August Dekl.	August ☾ Glieder
		—	in		—	in		—	in		—	in
	$19^{h}\ 51^{m}$	89° 11'	0.01^{s} $0.01''$	$19^{h}\ 52^{m}$	89° 11'	0.01^{s} $0.01''$	$19^{h}\ 53^{m}$	89° 11'	0.01^{s} $0.01''$	$19^{h}\ 53^{m}$	89° 11'	0.01^{s} $0.01''$
1	$40^{s}.15$	$8''.62$	+44 −6	$30^{s}.01$	$11''.37$	−27 −7	$3^{s}.83$	$17''.81$	−48 +3	$16^{s}.12$	$27''.02$	+22 +6
2	41.90	8.64	+26 −9	31.41	11.53	−42 −4	4.62	18.08	−42 +6	16.06	27.32	+36 +2
3	43.64	8.66	+6 −9	32.80	11.69	−49 0	5.38	18.34	−29 +9	15.96	27.61	+42 −2
4	45.37	8.68	−17 −8	34.17	11.86	−48 +4	6.12	18.61	−10 +9	15.84	27.91	+36 −7
5	47.10	8.71	−35 −6	35.53	12.03	−39 +7	6.83	18.88	+11 +8	15.70	28.20	+21 −10
6	48.82	8.75	−48 −2	36.87	12.21	−23 +9	7.52	19.15	+28 +5	15.52	28.50	0 −11
7	50.54	8.79	−51 +1	38.19	12.39	−4 +9	8.18	19.42	+39 0	15.32	28.79	−22 −10
8	52.24	8.84	−47 +5	39.49	12.58	+17 +7	8.82	19.70	+40 −5	15.08	29.08	−40 −6
9	53.94	8.89	−36 +8	40.78	12.77	+31 +3	9.43	19.98	+29 −9	14.82	29.38	−47 −1
10	55.63	8.95	−18 +9	42.04	12.96	+38 −2	10.02	20.26	+11 −11	14.54	29.67	−43 +5
11	57.31	9.01	+2 +8	43.29	13.16	+34 −7	10.58	20.54	−12 −11	14.22	29.96	−28 +9
12	58.99	9.08	+21 +5	44.51	13.36	+21 −10	11.11	20.82	−33 −8	13.88	30.25	−6 +12
13	60.65	9.15	+33 +1	45.72	13.56	0 −12	11.62	21.11	−47 −4	13.51	30.54	+19 +11
14	62.30	9.22	+36 −4	46.91	13.77	−23 −11	12.10	21.40	−49 +2	13.12	30.82	+40 +9
15	63.94	9.30	+29 −8	48.07	13.98	−41 −7	12.56	21.68	−40 +7	12.70	31.11	+53 +4
16	65.57	9.39	+13 −11	49.22	14.20	−49 −2	12.99	21.97	−21 +11	12.25	31.39	+56 0
17	67.19	9.48	−9 −12	50.34	14.42	−46 +4	13.39	22.27	+3 +12	11.78	31.67	+50 −5
18	68.80	9.57	−29 −9	51.45	14.64	−32 +9	13.77	22.56	+28 +11	11.28	31.94	+35 −8
19	70.40	9.67	−43 −5	52.54	14.86	−9 +11	14.12	22.86	+47 +7	10.75	32.22	+15 −9
20	71.99	9.77	−46 +1	53.60	15.09	+16 +12	{14.44 / 14.74	23.15 / 23.45	+57 +3 / +56 −2}	10.20	32.49	−6 −9
21	73.56	9.88	−38 +6	54.64	15.32	+39 +10	15.00	23.74	+46 −6	9.62	32.76	−25 −7
22	75.13	9.99	−20 +10	55.66	15.56	+54 +6	15.24	24.04	+29 −9	9.01	33.03	−40 −4
23	76.68	10.11	+4 +12	56.66	15.80	+59 +1	15.45	24.34	+8 −9	8.38	33.29	−48 0
24	78.22	10.23	+28 +12	57.64	16.04	+55 −3	15.64	24.64	−13 −8	7.72	33.56	−49 +3
25	79.74	10.36	+48 +8	58.59	16.29	+41 −7	15.79	24.93	−31 −6	7.04	33.82	−41 +7
26	81.25	10.49	+59 +4	59.52	16.54	+22 −9	15.92	25.23	−48 −3	6.33	34.08	−26 +9
27	82.75	10.63	+60 −1	60.43	16.79	0 −9	16.02	25.53	−49 +1	5.60	34.34	−7 +9
28	84.23	10.77	+51 −5	61.32	17.04	−20 −8	16.10	25.83	−46 +5	4.84	34.59	+13 +7
29	85.70	10.91	+34 −8	62.18	17.30	−36 −5	16.14	26.13	−35 +8	4.06	34.84	+30 +4
30	87.15	11.06	+14 −9	63.02	17.55	−46 −1	16.16	26.42	−18 +9	3.26	35.09	+39 −1
31	88.59	11.21	−8 −9	63.83	17.81	−48 +3	16.16	26.72	+2 +9	2.43	35.33	+39 −6
32	90.01	11.37	−27 −7				16.12	27.02	+22 +6	1.58	35.57	+28 −9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 11' 0"	70.160	−70.153	−89° 11' 20"	70.641	−70.634	−89° 11' 30"	70.884	−70.877
10	70.400	−70.393	30	70.884	−70.877	40	71.128	−71.121

$\alpha_{1932.0} = 19^{h}\ 50^{m}\ 26^{s}.12$ $\delta_{1932.0} = -89°\ 11'\ 22''.46$

Obere Kulmination Greenwich

Sh) σ Octantis $5^m.48$

Tag	September AR.	September Dekl.	September ☾ Glieder in		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder in		November AR.	November Dekl.	November ☾ Glieder in		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder in	
	$19^h 52^m$	−89° 11′	$0^s.01$	0″.01	$19^h 51^m$	−89° 11′	$0^s.01$	0″.01	$19^h 51^m$	−89° 11′	$0^s.01$	0″.01	$19^h 50^m$	−89° 11′	$0^s.01$	0″.01
1	$61^s.58$	35″.57	+28	−9	$86^s.96$	40″.72	−26	−9	$42^s.14$	40″.74	−30	+9	$65^s.84$	35″.23	+32	+11
2	60.70	35.81	+9	−11	85.57	40.81	−40	−5	40.73	40.64	−7	+12	64.92	34.97	+52	+7
3	59.81	36.04	−13	−10	84.18	40.90	−45	+1	39.33	40.53	+19	+12	64.03	34.70	+62	+3
4	58.89	36.27	−32	−7	82.77	40.98	−37	+6	37.93	40.42	+42	+10	63.16	34.43	+61	−2
5	57.95	36.49	−44	−2	81.36	41.06	−20	+10	36.55	40.30	+57	+6	62.31	34.15	+49	−6
6	56.98	36.71	−44	+3	79.94	41.13	+3	+12	35.17	40.18	+62	+1	61.49	33.87	+31	−8
7	56.00	36.93	−33	+8	78.51	41.19	+28	+11	33.81	40.05	+56	−4	60.70	33.59	+9	−9
8	54.99	37.14	−13	+11	77.08	41.25	+48	+8	32.47	39.91	+42	−7	59.93	33.30	−12	−8
9	53.97	37.35	+11	+12	75.64	41.30	+59	+4	31.13	39.77	+21	−9	59.19	33.01	−29	−5
10	52.92	37.55	+34	+10	74.19	41.34	+59	−1	29.81	39.62	−1	−9	58.47	32.72	−41	−2
11	51.85	37.75	+51	+6	72.74	41.38	+49	−6	28.50	39.46	−21	−7	57.78	32.42	−44	+2
12	50.77	37.95	+58	+2	71.28	41.41	+32	−8	27.20	39.30	−36	−4	57.11	32.12	−41	+6
13	49.66	38.14	+54	−3	69.82	41.44	+11	−9	25.92	39.13	−45	0	56.47	31.81	−30	+8
14	48.54	38.33	+41	−7	68.36	41.46	−11	−9	24.65	38.96	−46	+3	55.86	31.50	−14	+9
15	47.39	38.51	+23	−9	66.89	41.47	−29	−6	23.40	38.78	−40	+7	55.27	31.19	+4	+8
16	46.23	38.69	+2	−9	65.42	41.48	−42	−3	22.16	38.60	−27	+8	54.71	30.87	+21	+6
17	45.05	38.86	−19	−8	63.95	41.48	−48	+1	20.94	38.41	−10	+9	54.18	30.55	+32	+2
18	43.85	39.03	−36	−5	62.48	41.48	−47	+4	19.73	38.22	+8	+7	53.68	30.23	+36	−3
19	42.64	39.19	−47	−2	61.01	41.47	−38	+7	18.54	38.02	+24	+4	53.20	29.90	+29	−8
20	41.41	39.35	−50	+2	59.54	41.45	−23	+9	17.37	37.82	+33	0	52.75	29.57	+13	−11
21	40.16	39.50	−45	+5	58.07	41.42	−4	+8	16.22	37.61	+33	−5	52.33	29.24	−8	−12
22	38.90	39.65	−33	+8	56.61	41.39	+14	+6	15.09	37.40	+23	−9	51.94	28.91	−30	−10
23	37.63	39.79	−16	+9	55.14	41.35	+28	+2	13.98	37.18	+5	−12	51.58	28.58	−47	−6
24	36.34	39.92	+3	+8	53.68	41.31	+34	−2	12.89	36.95	−16	−12	51.24	28.24	−54	−1
25	35.04	40.05	+21	+5	52.22	41.26	+31	−7	11.82	36.72	−36	−9	50.93	27.90	−49	+5
26	33.72	40.18	+33	+1	50.76	41.20	+18	−10	10.77	36.49	−49	−4	50.65	27.56	−32	+9
27	32.39	40.30	+37	−4	49.31	41.14	−1	−12	9.74	36.25	−50	+2	50.41	27.22	−8	+11
28	31.05	40.41	+31	−8	47.86	41.07	−22	−10	8.73	36.00	−39	+7	50.19	26.88	+19	+11
29	29.70	40.52	+15	−11	46.42	41.00	−39	−7	7.75	35.75	−19	+11	50.00	26.53	+43	+9
30	28.33	40.62	−6	−11	44.99	40.92	−47	−2	6.78	35.49	+7	+12	49.84	26.18	+57	+5
31	26.96	40.72	−26	−9	43.56	40.83	−44	+4	5.84	35.23	+32	+11	49.71	25.83	+61	0
32					42.14	40.74	−30	+9					49.60	25.48	+55	−5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 11′ 20″	70.641	−70.634	−89° 11′ 30″	70.884	−70.877	−89° 11′ 40″	71.128	−71.121
30	70.884	−70.877	40	71.128	−71.121	50	71.374	−71.367

$\alpha_{1932.0} = 19^h\ 50^m\ 26^s.12$ $\delta_{1932.0} = -89°\ 11'\ 22''.46$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

81) β Octantis $4^{m}.34$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$22^{h}\,39^{m}$	81° 44′	$0^{s}.01$	$0''.01$	$22^{h}\,39^{m}$	81° 44′	$0^{s}.01$	$0''.01$	$22^{h}\,39^{m}$	81° 44′	$0^{s}.01$	$0''.01$	$22^{h}\,39^{m}$	81° 44′	$0^{s}.01$	$0''.01$
1	$12^{s}.36$	$41''.14$	+2	−9	$10^{s}.04$	$32''.15$	−5	−2	$9^{s}.81$	$21''.41$	−4	+7	$11^{s}.71$	$9''.86$	+4	+11
2	12.26	40.91	−1	−10	10.00	31.80	−5	+3	*)9.84	21.02	−2	+10	11.80	9.51	+6	+8
3	12.16	40.68	−3	−9	9.96	31.45	−3	+8	9.87	20.63	0	+12	11.90	9.17	+6	+3
4	12.05	40.45	−5	−5	9.92	31.10	−1	+11	9.90	20.24	+3	+12	12.00	8.83	+5	−1
5	11.95	40.21	−5	0	9.88	30.75	+1	+12	9.94	19.85	+5	+9	12.10	8.49	+4	−5
6	11.85	39.96	−4	+5	9.85	30.39	+4	+11	9.98	19.46	+6	+6	12.20	8.15	+1	−8
7	11.75	39.71	−3	+9	9.82	30.03	+5	+8	10.02	19.08	+6	+1	12.30	7.82	−1	−10
8	11.66	39.46	0	+11	9.79	29.67	+6	+4	10.06	18.70	+5	−3	12.41	7.49	−3	−9
9	11.57	39.20	+2	+12	9.77	29.31	+5	0	10.10	18.32	+3	−7	12.52	7.16	−5	−8
10	11.48	38.94	+4	+10	9.75	28.95	+4	−5	10.15	17.94	+1	−9	12.63	6.84	−6	−5
11	11.39	38.67	+6	+7	9.73	28.58	+2	−8	10.20	17.56	−2	−10	12.74	6.52	−6	−2
12	11.30	38.40	+6	+2	9.71	28.21	0	−10	10.25	17.18	−4	−9	12.85	6.20	−5	+2
13	11.22	38.12	+5	−2	9.70	27.84	−3	−10	10.30	16.80	−5	−7	12.96	5.88	−3	+5
14	11.14	37.84	+3	−6	9.69	27.47	−5	−9	10.35	16.42	−6	−4	13.08	5.57	0	+7
15	11.06	37.56	+1	−9	9.68	27.10	−6	−6	10.41	16.04	−6	0	13.20	5.26	+2	+6
16	10.98	37.27	−1	−10	9.67	26.73	−6	−2	10.47	15.66	−4	+4	13.32	4.96	+4	+4
17	10.91	36.97	−4	−10	9.66	26.35	−5	+1	10.53	15.28	−2	+6	13.44	4.66	+5	0
18	10.84	36.67	−5	−8	9.66	25.97	−4	+5	10.59	14.91	0	+7	13.56	4.36	+5	−4
19	10.77	36.37	−6	−5	9.66	25.59	−1	+7	10.66	14.54	+3	+6	13.68	4.06	+3	−8
20	10.70	36.07	−6	−1	9.66	25.21	+2	+8	10.73	14.17	+5	+3	13.81	3.77	+1	−10
21	10.63	35.76	−5	+3	9.66	24.83	+4	+6	10.80	13.80	+5	−1	13.94	3.48	−2	−10
22	10.56	35.45	−2	+7	9.67	24.45	+5	+2	10.87	13.43	+4	−5	14.07	3.20	−4	−7
23	10.50	35.13	0	+8	9.68	24.07	+5	−2	10.94	13.06	+3	−8	14.20	2.92	−5	−3
24	10.44	34.81	+3	+8	9.69	23.69	+4	−6	11.02	12.70	0	−10	14.33	2.64	−5	+3
25	10.38	34.49	+5	+5	9.70	23.31	+2	−9	11.10	12.34	−3	−8	14.46	2.37	−4	+8
26	10.32	34.16	+6	+1	9.72	22.93	−1	−9	11.18	11.98	−4	−5	14.60	2.10	−1	+12
27	10.27	33.83	+5	−4	9.74	22.55	−3	−7	11.26	11.62	−5	0	14.74	1.83	+1	+13
28	10.22	33.50	+3	−7	9.76	22.17	−5	−3	11.35	11.26	−4	+5	14.88	1.57	+4	+12
29	10.17	33.17	+1	−9	9.78	21.79	−5	+2	11.44	10.91	−3	+9	15.02	1.31	+5	+10
30	10.12	32.83	−2	−9	9.81	21.41	−4	+7	11.53	10.56	0	+12	15.16	1.06	+6	+5
31	10.08	32.49	−4	−6					11.62	10.21	+2	+13	15.30	0.81	+6	+1
32	10.04	32.15	−5	−2					11.71	9.86	+4	+11				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 44′ 0″	6.955	−6.883	−81° 44′ 20″	6.960	−6.888	−81° 44′ 40″	6.964	−6.892
10	6.957	−6.885	30	6.962	−6.890	50	6.967	−6.895

$\alpha_{1932.0} = 22^{h}\ 39^{m}\ 13^{s}.26 \qquad \delta_{1932.0} = -81°\ 44'\ 20''.51$

*) Tag der doppelten unteren Kulmination: März 2

811) β Octantis $4^m.34$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$22^h\ 39^m$	$-81°\ 43'$	in 0.01^s	$0.01''$	$22^h\ 39^m$	$-81°\ 43'$	in 0.01^s	$0.01''$	$22^h\ 39^m$	$-81°\ 43'$	in 0.01^s	$0.01''$	$22^h\ 39^m$	$-81°\ 43'$	in 0.01^s	$0.01''$
1	15.30	60.81	+6	+1	20.11	55.42	−1	−9	24.93	54.97	−5	−4	28.89	59.39	−2	+7
2	15.44	60.57	+4	−3	20.28	55.33	−3	−8	25.08	55.04	−6	−1	28.99	59.60	+1	+8
3	15.58	60.33	+2	−7	20.45	55.24	−5	−6	25.23	55.11	−5	+3	29.09	59.82	+3	+7
4	15.72	60.10	0	−9	20.62	55.16	−6	−3	25.38	55.19	−3	+6	29.18	60.04	+5	+4
5	15.86	59.87	−2	−9	20.79	55.08	−5	0	25.53	55.28	−1	+8	29.27	60.26	+5	−1
6	16.01	59.64	−4	−8	20.96	55.01	−4	+4	25.67	55.37	+2	+7	29.36	60.49	+4	−5
7	16.16	59.42	−5	−6	21.12	54.94	−2	+6	25.81	55.46	+4	+5	29.45	60.72	+2	−9
8	16.31	59.20	−6	−3	21.28	54.88	0	+7	25.95	55.56	+5	+2	29.53	60.95	0	−10
9	16.46	58.99	−5	+1	21.44	54.82	+3	+6	26.09	55.67	+5	−3	29.61	61.19	−3	−10
10	16.61	58.78	−4	+4	21.60	54.77	+4	+4	26.23	55.78	+4	−7	29.69	61.43	−5	−7
11	16.76	58.58	−1	+6	21.76	54.73	+5	−1	26.37	55.89	+1	−10	29.77	61.67	−5	−2
12	16.91	58.38	+1	+7	21.92	54.69	+4	−5	26.51	56.01	−2	−11	29.84	61.92	−5	+4
13	17.07	58.18	+3	+5	22.08	54.65	+2	−9	26.65	56.14	−4	−9	29.91	62.17	−3	+8
14	17.23	57.99	+5	+2	22.25	54.62	0	−11	26.79	56.27	−5	−5	29.98	62.42	−1	+11
15	17.38	57.80	+5	−3	22.41	54.60	−3	−11	26.92	56.41	−6	0	30.05	62.68	+2	+12
16	17.53	57.62	+4	−7	22.57	54.58	−5	−8	27.05	56.55	−4	+5	30.11	62.94	+4	+10
17	17.69	57.45	+2	−10	22.73	54.57	−6	−3	27.18	56.69	−2	+10	30.17	63.20	+6	+7
18	17.85	57.28	−1	−11	22.89	54.57	−5	+3	27.31	56.84	0	+12	30.23	63.46	+6	+3
19	18.01	57.11	−3	−9	23.05	54.57	−3	+8	27.43	56.99	+3	+12	30.29	63.73	+5	−2
20	18.17	56.95	−5	−5	23.21	54.57	−1	+11	27.55	57.15	+5	+9	30.34	64.00	+3	−5
21	18.33	56.80	−5	0	23.37	54.58	+2	+13	27.67	57.31	+6	+6	30.39	64.27	+1	−8
22	18.49	56.65	4	+5	23.53	54.59	+4	+12	27.79	57.48	+6	+1	30.44	64.54	−1	−9
23	18.65	56.50	−2	+10	23.69	54.61	+6	+9	27.91	57.65	+5	−3	30.49	64.81	−3	−9
24	18.81	56.36	0	+13	23.85	54.64	+6	+5	28.03	57.83	+3	−6	30.53	65.09	−5	−7
25	18.97	56.23	+3	+13	24.01	54.67	+6	0	28.14	58.01	0	−8	30.57	65.37	−6	−4
26	19.13	56.10	+5	+11	24.17	54.71	+4	−4	28.25	58.19	−2	−9	30.61	65.65	−6	0
27	19.29	55.97	+6	+7	24.33	54.75	+2	−7	28.36	58.38	−4	−8	30.64	65.93	−5	+3
28	19.45	55.85	+6	+3	24.48	54.80	0	−9	28.47	58.57	−5	−6	30.67	66.21	−3	+6
29	19.61	55.74	+5	−2	24.63	54.85	−3	−9	28.58	58.77	−6	−2	30.70	66.49	0	+7
30	19.77	55.63	+3	−5	24.78	54.91	−4	−7	28.69	58.97	−5	+1	30.73	66.78	+2	+7
31	19.94	55.52	+1	−8	24.93	54.97	−5	−4	28.79	59.18	−4	+5	{30.75 {30.77	67.07 67.36	+4 +5	+5} +1}
32	20.11	55.42	−1	−9					28.89	59.39	−2	+7	30.79	67.65	+5	−3

δ	sec δ	tg δ
−81° 43′ 50″	6.953	−6.880
60	6.955	−6.883

δ	sec δ	tg δ
−81° 44′ 0″	6.955	−6.883
10	6.957	−6.885

$\alpha_{1932.0} = 22^h\ 39^m\ 13^s.26$ $\delta_{1932.0} = -81°\ 44'\ 20''.51$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Si) β Octantis $4^{m}.34$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$22^{h}\,39^{m}$	−81° 44′	in 0.01s	in 0.01″	$22^{h}\,39^{m}$	−81° 44′	in 0.01s	in 0.01″	$22^{h}\,39^{m}$	−81° 44′	in 0.01s	in 0.01″	$22^{h}\,39^{m}$	−81° 44′	in 0.01s	in 0.01″
1	30.79	7.65	+5	−3	30.03	16.23	−1	−10	26.97	22.71	−5	+3	22.88	24.18	+1	+13
2	30.80	7.94	+3	−7	29.96	16.49	−3	−9	26.84	22.84	−3	+8	22.74	24.14	+4	+13
3	30.81	8.23	+1	−10	29.89	16.75	−5	−5	26.71	22.97	−1	+12	22.60	24.08	+6	+10
4	30.82	8.52	−2	−10	29.82	17.01	−5	0	26.58	23.10	+2	+13	22.46	24.02	+7	+6
5	30.83	8.81	−4	−8	29.75	17.27	−4	+5	26.45	23.22	+4	+12	22.32	23.96	+6	+2
6	30.83	9.10	−5	−3	29.67	17.52	−2	+10	26.32	23.33	+6	+9	22.18	23.89	+5	−2
7	30.83	9.39	−5	+2	29.59	17.77	0	+12	26.19	23.44	+6	+4	22.05	23.81	+3	−6
8	30.83	9.68	−4	+7	29.51	18.02	+3	+13	26.06	23.54	+6	0	21.92	23.73	0	−8
9	30.83	9.98	−1	+11	29.43	18.26	+5	+10	25.93	23.63	+4	−4	21.79	23.64	−2	−8
10	30.82	10.28	+1	+12	29.34	18.50	+6	+7	25.80	23.72	+2	−7	21.65	23.54	−4	−7
11	30.81	10.58	+4	+11	29.25	18.74	+6	+2	25.67	23.80	−1	−8	21.52	23.44	−5	−4
12	30.80	10.87	+5	+9	29.16	18.97	+5	−2	25.54	23.88	−3	−8	21.39	23.33	−5	−1
13	30.78	11.16	+6	+5	29.07	19.20	+3	−6	25.40	23.95	−5	−6	21.26	23.21	−5	+2
14	30.76	11.45	+6	0	28.98	19.42	+1	−8	25.26	24.02	−5	−4	21.13	23.09	−3	+5
15	30.74	11.74	+4	−4	28.88	19.64	−2	−9	25.12	24.08	−5	0	21.00	22.96	−1	+7
16	30.72	12.03	+2	−7	28.78	19.86	−4	−8	24.98	24.13	−5	+3	20.87	22.83	+1	+7
17	30.69	12.32	0	−9	28.68	20.07	−5	−6	24.84	24.18	−3	+5	20.74	22.69	+3	+6
18	30.66	12.61	−3	−9	28.58	20.28	−6	−3	24.70	24.22	−1	+7	20.61	22.54	+4	+2
19	30.63	12.90	−4	−7	28.48	20.48	−5	0	24.56	24.26	+2	+6	20.49	22.39	+5	−2
20	30.59	13.18	−6	−5	28.37	20.68	−4	+4	24.42	24.29	+4	+4	20.37	22.23	+4	−7
21	30.55	13.47	−6	−2	28.26	20.88	−2	+6	24.28	24.31	+5	0	20.25	22.07	+2	−10
22	30.51	13.75	−5	+2	28.15	21.07	0	+6	24.14	24.32	+4	−4	20.13	21.90	−1	−12
23	30.47	14.03	−4	+4	28.04	21.26	+2	+5	24.00	24.33	+3	−8	20.01	21.73	−3	−11
24	30.42	14.31	−1	+6	27.93	21.44	+4	+3	23.86	24.33	+1	−11	19.89	21.55	−5	−8
25	30.37	14.59	+1	+7	27.82	21.61	+5	−1	23.72	24.33	−2	−12	19.77	21.36	−6	−3
26	30.32	14.87	+3	+5	27.70	21.78	+4	−5	23.58	24.32	−4	−10	19.65	21.17	−5	+3
27	30.27	15.15	+5	+2	27.58	21.95	+3	−9	23.44	24.31	−5	−5	19.53	20.97	−3	+8
28	30.21	15.42	+5	−2	27.46	22.11	0	−11	23.30	24.29	−5	0	19.42	20.77	0	+11
29	30.15	15.69	+4	−6	27.34	22.27	−2	−10	23.16	24.26	−4	+6	19.31	20.56	+2	+12
30	30.09	15.96	+2	−9	27.21	22.42	−4	−7	23.02	24.22	−2	+10	19.20	20.35	+5	+11
31	30.03	16.23	−1	−10	27.09	22.57	−5	−2	22.88	24.18	+1	+13	19.09	20.13	+6	+8
32					26.97	22.71	−5	+3					18.98	19.91	+7	+4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 44′ 0″	6.955	−6.883	−81° 44′ 10″	6.957	−6.885	−81° 44′ 20″	6.960	−6.888
10	6.957	−6.885	20	6.960	−6.888	30	6.962	−6.890

$\alpha_{1932.0} = 22^{h}\ 39^{m}\ 13^{s}.26 \qquad \delta_{1932.0} = -81°\ 44'\ 20''.51$

Sk) τ Octantis $5^m.56$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder	
	$23^h 18^m$	$-87° 51'$	in $0^s.01$	in $0''.01$	$23^h 18^m$	$-87° 51'$	in $0^s.01$	in $0''.01$
1	39.29	43.31	+13	−8	26.59	34.93	−17	−3
2	38.78	43.12	+4	−10	26.30	34.59	−20	+1
3	38.28	42.92	−6	−9	26.02	34.25	−17	+6
4	37.78	42.71	−14	−6	25.75	33.91	−11	+10
5	37.30	42.50	−19	−2	25.49	33.56	−3	+12
6	36.82	42.28	−19	+3	25.23	33.21	+6	+11
7	36.34	42.06	−15	+8	24.98	32.86	+13	+9
8	35.87	41.83	−8	+11	24.74	32.51	+18	+5
9	35.41	41.60	+1	+12	24.51	32.15	+19	+1
10	34.95	41.36	+9	+11	24.29	31.79	+17	−3
11	34.49	41.12	+15	+8	24.07	31.43	+12	−7
12	34.04	40.87	+19	+4	23.87	31.06	+5	−9
13	33.60	40.61	+19	0	23.67	30.69	−3	−10
14	33.17	40.35	+16	−4	23.48	30.32	−11	−10
15	32.74	40.09	+10	−8	23.30	29.95	−17	−8
16	32.32	39.82	+2	−10	23.13	29.58	−20	−4
17	31.90	39.55	−6	−10	22.97	29.20	−20	0
18	31.49	39.27	−13	−9	22.82	28.82	−16	+4
19	31.09	38.99	−19	−6	22.68	28.44	−8	+7
20	30.70	38.70	−21	−2	22.55	28.06	+1	+8
21	30.32	38.41	−19	+2	22.43	27.68	+11	+7
22	29.94	38.11	−13	+6	22.31	27.29	+18	+4
23	29.57	37.81	−4	+8	22.21	26.90	+20	0
24	29.21	37.51	+6	+8	22.11	26.51	+19	−4
25	28.85	37.20	+14	+6	22.02	26.12	+12	−8
26	28.50	36.89	+19	+3	21.94	25.73	+3	−9
27	28.16	36.57	+20	−2	21.87	25.34	−7	−8
28	27.83	36.25	+16	−6	21.81	24.95	−15	−5
29	27.51	35.93	+8	−9	21.76	24.56	−19	0
30	27.20	35.60	−1	−9	21.72	24.17	−18	+5
31	26.89	35.27	−11	−7				
32	26.59	34.93	−17	−3				

Tag	März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$23^h 18^m$	$-87° 51'$	in $0^s.01$	in $0''.01$	$23^h 18^m$	$-87° 51'$	in $0^s.01$	in $0''.01$
1	21.72	24.17	−18	+5	24.78	12.05	+8	+12
2	21.69	23.78	−14	+9	25.02	11.68	+15	+9
3	21.66	23.38	−6	+12	25.26	11.31	+19	+5
4	21.65	22.98	+3	+12	25.51	10.94	+19	0
5	21.64	22.58	+11	+10	25.77	10.57	+16	−4
6	21.64	22.18	+17	+7	26.03	10.21	+11	−7
7	21.65	21.78	+19	+3	26.31	9.85	+3	−9
8	21.67	21.38	+18	−1	26.59	9.49	−5	−10
9	21.70	20.98	+14	−5	26.88	9.13	−12	−9
10	21.74	20.58	+8	−8	27.17	8.78	−18	−7
11	21.78	20.18	0	−10	27.48	8.43	−20	−3
12	*)21.84	19.79	−8	−10	27.79	8.08	−20	0
13	21.90	19.40	−15	−9	28.10	7.73	−14	+4
14	21.98	19.01	−19	−6	28.43	7.39	−6	+6
15	22.06	18.62	−20	−2	28.76	7.05	+3	+7
16	22.15	18.22	−18	+2	29.10	6.71	+12	+5
17	22.26	17.83	−12	+5	29.45	6.37	+18	+2
18	22.37	17.44	−3	+7	29.81	6.04	+20	−2
19	22.48	17.05	+7	+7	30.17	5.71	+17	−6
20	22.61	16.66	+15	+5	30.54	5.39	+10	−9
21	22.75	16.27	+20	+1	30.91	5.07	0	−10
22	22.89	15.88	+19	−3	31.29	4.75	−9	−8
23	23.04	15.49	+15	−7	31.68	4.43	−16	−4
24	23.20	15.10	+7	−9	32.08	4.12	−19	+1
25	23.37	14.72	−3	−9	32.48	3.81	−18	+6
26	23.55	14.33	−12	−6	32.89	3.51	−12	+11
27	23.73	13.95	−17	−2	33.30	3.21	−4	+13
28	23.92	13.57	−19	+3	33.72	2.91	+5	+13
29	24.13	13.19	−16	+8	34.15	2.62	+13	+11
30	24.34	12.81	−9	+11	34.58	2.33	+18	+7
31	24.55	12.43	0	+13	35.01	2.05	+20	+3
32	24.78	12.05	+8	+12				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 51′ 0″	26.655	−26.637	−87° 51′ 20″	26.724	−26.706	−87° 51′ 40″	26.794	−26.775
10	26.690	−26 671	30	26.759	−26.740	50	26.829	−26.810

$\alpha_{1932.0} = 23^h\ 18^m\ 36^s.36 \qquad \delta_{1932.0} = -87°\ 51'\ 22''.65$

*) Tag der doppelten unteren Kulmination: März 12

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$23^h\,18^m$	−87° 50′	in $0^s.01$	in $0''.01$	$23^h\,18^m$	−87° 50′	in $0^s.01$	in $0''.01$	$23^h\,19^m$	−87° 50′	in $0^s.01$	in $0''.01$	$23^h\,19^m$	−87° 50′	in $0^s.01$	in $0''.01$
1	$35^s.01$	$62''.05$	+20	+3	$50^s.87$	$55''.39$	+1	−9	$8^s.13$	$53''.73$	−17	−6	$23^s.72$	$57''.19$	−10	+6
2	35.46	61.77	+18	−2	51.44	55.25	−7	−9	8.69	53.76	−19	−3	24.13	57.38	−2	+8
3	35.91	61.49	+13	−6	52.01	55.12	−14	−8	9.25	53.80	−19	+1	24.54	57.57	+7	+7
4	36.36	61.21	+6	−8	52.58	54.99	−18	−5	9.81	53.85	−14	+4	24.94	57.77	+15	+5
5	36.82	60.94	−2	−9	53.15	54.87	−20	−1	10.36	53.90	−7	+7	25.33	57.97	+19	+1
6	37.28	60.67	−10	−9	53.72	54.76	−18	+2	10.91	53.95	+2	+8	25.71	58.18	+19	−3
7	37.75	60.41	−16	−7	54.29	54.65	−12	+5	11.46	54.01	+10	+6	26.09	58.39	+15	−7
8	38.23	60.15	−19	−4	54.87	54.55	−4	+7	12.01	54.08	+17	+3	26.46	58.61	+6	−10
9	38.71	59.90	−20	−1	55.45	54.45	+5	+7	12.55	54.15	+20	−1	26.82	58.83	−4	−10
10	39.19	59.65	−16	+3	56.03	54.36	+13	+5	13.09	54.22	+17	−6	27.17	59.06	−12	−8
11	39.68	59.41	−9	+6	56.61	54.27	+18	+1	13.62	54.30	+11	−9	27.52	59.29	−19	−3
12	40.18	59.17	−1	+7	57.19	54.19	+19	−3	14.15	54.39	+2	−11	27.86	59.52	−20	+2
13	40.68	58.93	+8	+6	57.77	54.12	+15	−8	14.68	54.48	−8	−10	28.19	59.75	−17	+7
14	41.18	58.70	+16	+3	58.35	54.05	+7	−10	15.20	54.58	−16	−7	28.51	59.99	−10	+10
15	41.69	58.47	+19	−1	58.93	53.99	−2	−11	15.72	54.68	−20	−2	28.83	60.23	0	+12
16	42.20	58.25	+18	−5	59.51	53.93	−11	−9	16.24	54.79	−19	+4	29.13	60.48	+9	+11
17	42.72	58.03	+13	−9	60.09	53.88	−18	−5	16.75	54.90	−14	+8	29.42	60.73	+16	+9
18	43.24	57.82	+4	−11	60.67	53.83	−20	+1	17.25	55.02	−6	+11	29.71	60.98	+20	+5
19	43.76	57.62	−6	−10	61.25	53.79	−17	+6	17.75	55.14	+3	+12	29.99	61.23	+20	0
20	44.29	57.42	−14	−7	61.83	53.75	−11	+10	18.24	55.27	+12	+11	30.25	61.49	+16	−4
21	44.82	57.22	−19	−2	62.41	53.72	−2	+12	18.73	55.40	+18	+7	30.51	61.75	+10	−7
22	45.35	57.03	−19	+4	62.99	53.70	+7	+12	19.21	55.54	+20	+3	30.76	62.02	+2	−9
23	45.89	56.84	−15	+9	63.56	53.68	+15	+10	19.69	55.68	+19	−1	31.00	62.29	−6	−9
24	46.43	56.66	−7	+12	64.14	53.67	+19	+6	20.16	55.83	+14	−5	31.23	62.56	−13	−8
25	46.98	56.48	+2	+13	64.72	53.66	+20	+2	20.63	55.99	+7	−8	31.45	62.83	−18	−5
26	47.53	56.31	+11	+12	65.29	53.65	+17	−2	21.09	56.15	−1	−9	31.66	63.11	−20	−2
27	48.08	56.14	+17	+9	65.86	53.66	+12	−6	21.55	56.31	−8	−9	31.86	63.39	−18	+2
28	48.63	55.98	+20	+5	66.43	53.67	+4	−8	21.99	56.48	−15	−7	32.05	63.67	−13	+5
29	49.19	55.83	+19	0	67.00	53.68	−3	−9	22.43	56.65	−19	−4	32.23	63.95	−6	+7
30	49.75	55.68	+15	−4	67.57	53.70	−11	−8	22.87	56.83	−19	0	32.40	64.23	+4	+7
31	50.31	55.53	+9	−7	68.13	53.73	−17	−6	23.30	57.01	−17	+3	32.56	64.51	+12	+6
32	50.87	55.39	+1	−9					23.72	57.19	−10	+6	32.71	64.80	+18	+2

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 50′ 50″	26.621	−26.602	−87° 51′ 0″	26.655	−26.637
60	26.655	−26.637	10	26.690	−26.671

$\alpha_{1932.0} = 23^h\ 18^m\ 36^s.36$ $\delta_{1932.0} = -87^\circ\ 51'\ 22''.65$

Scheinbare Sternörter 1932

Obere Kulmination Greenwich

Sk) τ Octantis $5^{m}.56$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$23^{h}\ 19^{m}$	87° 51′	$0^{s}.01$	$0''.01$	$23^{h}\ 19^{m}$	87° 51′	$0^{s}.01$	$0''.01$	$23^{h}\ 19^{m}$	87° 51′	$0^{s}.01$	$0''.01$	$23^{h}\ 18^{m}$	87° 51′	$0^{s}.01$	$0''.01$
1	$32^{s}.71$	$4''.80$	+18	+ 2	$32^{s}.12$	$14''.03$	+ 5	−10	$21^{s}.84$	$21''.53$	−20	+ 1	$65^{s}.86$	$24''.29$	− 5	+12
2	32.85	5.09	+20	− 2	31.93	14.32	− 5	− 9	21.37	21.71	−17	+ 7	65.29	24.29	+ 4	+13
3	32.98	5.38	+17	− 6	31.73	14.60	−14	− 6	20.90	21.88	−11	+11	64.72	24.28	+13	+12
4	33.10	5.67	+10	− 9	31.51	14.88	−19	− 2	20.43	22.04	− 2	+13	64.14	24.26	+19	+ 8
5	33.21	5.96	+ 1	−10	31.29	15.16	−19	+ 4	19.95	22.20	+ 8	+13	63.56	24.23	+21	+ 4
6	33.31	6.25	− 9	− 8	31.06	15.44	−15	+ 9	19.46	22.36	+16	+10	62.98	24.20	+19	− 1
7	33.40	6.55	−16	− 5	30.82	15.72	− 7	+12	18.97	22.51	+20	+ 6	62.40	24.17	+14	− 4
8	33.47	6.85	−20	0	30.57	16.00	+ 2	+13	18.47	22.65	+21	+ 2	61.82	24.12	+ 7	− 7
9	33.54	7.15	−18	+ 5	30.31	16.27	+11	+12	17.96	22.79	+17	− 3	61.24	24.07	− 1	− 8
10	33.60	7.45	−12	+10	30.04	16.54	+17	+ 8	17.45	22.92	+11	− 6	60.66	24.01	− 9	− 7
11	{33.64 {33.68	7.75 8.05	− 4 + 6	+12} +12}	29.76	16.81	+20	+ 4	16.93	23.05	+ 3	− 8	60.08	23.95	−15	− 6
12	33.70	8.35	+14	+10	29.47	17.07	+19	− 1	16.41	23.17	− 5	− 8	59.51	23.88	−18	− 3
13	33.71	8.65	+19	+ 6	29.17	17.33	+15	− 4	15.89	23.28	−12	− 7	58.94	23.81	−18	0
14	33.72	8.95	+20	+ 2	28.87	17.59	+ 8	− 7	15.36	23.39	−17	− 5	58.37	23.72	−15	+ 4
15	33.71	9.25	+18	− 2	28.55	17.84	0	− 9	14.83	23.50	−19	− 2	57.80	23.63	− 9	+ 6
16	33.69	9.55	+13	− 6	28.22	18.09	− 8	− 9	14.29	23.60	−18	+ 1	57.23	23.54	− 1	+ 7
17	33.66	9.85	+ 5	− 8	27.89	18.33	−14	− 7	13.75	23.69	−14	+ 4	56.67	23.44	+ 7	+ 6
18	33.62	10.15	− 3	− 9	27.54	18.57	−18	− 4	13.20	23.77	− 7	+ 6	56.11	23.33	+14	+ 4
19	33.57	10.46	−11	− 8	27.19	18.81	−20	− 1	12.65	23.85	+ 2	+ 6	55.55	23.21	+18	− 1
20	33.51	10.77	−16	− 6	26.83	19.05	−17	+ 2	12.09	23.92	+10	+ 5	54.99	23.09	+18	− 5
21	33.44	11.07	−19	− 4	26.46	19.28	−12	+ 5	11.53	23.99	+16	+ 2	54.44	22.96	+13	− 9
22	33.35	11.37	−19	0	26.08	19.51	− 4	+ 6	10.97	24.05	+19	− 2	53.89	22.82	+ 5	−11
23	33.26	11.67	−16	+ 3	25.69	19.73	+ 5	+ 6	10.41	24.10	+17	− 7	53.34	22.68	− 5	−11
24	33.15	11.97	− 9	+ 6	25.30	19.95	+13	+ 4	9.85	24.15	+11	−10	52.80	22.54	−14	− 9
25	33.04	12.27	0	+ 7	24.89	20.16	+18	0	9.28	24.19	+ 2	−11	52.26	22.39	−19	− 4
26	32.91	12.57	+ 8	+ 6	24.48	20.37	+19	− 4	8.71	24.22	− 8	−10	51.73	22.23	−21	+ 1
27	32.78	12.87	+16	+ 3	24.06	20.58	+15	− 8	8.14	24.25	−16	− 7	51.20	22.07	−17	+ 6
28	32.63	13.16	+20	− 1	23.63	20.78	+ 8	−10	7.57	24.27	−20	− 2	50.67	21.90	− 9	+11
29	32.47	13.45	+18	− 5	23.20	20.98	− 2	−10	7.00	24.28	−19	+ 4	50.14	21.72	0	+12
30	32.30	13.74	+13	− 8	22.75	21.17	−11	− 8	6.43	24.29	−14	+ 9	49.62	21.54	+10	+12
31	32.12	14.03	+ 5	−10	22.30	21.35	−18	− 4	5.86	24.29	− 5	+12	49.11	21.35	+17	+ 9
32					21.84	21.53	−20	+ 1					48.60	21.16	+21	+ 5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 51′ 0″	26.655	−26.637	−87° 51′ 10″	26.690	−26.671	−87° 51′ 20″	26.724	−26.706
10	26.690	−26.671	20	26.724	−26.706	30	26.759	−26.740

$\alpha_{1932.0} = 23^{h}\ 18^{m}\ 36^{s}.36$ $\delta_{1932.0} = -87°\ 51'\ 22''.65$

P 32

Polnahe Sterne 1932

Scheinbare Koordinaten für 12ʰ Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10ᵐ.56		BD +89° 3 Gr. 9ᵐ.06		BD +89° 37 Gr. 10ᵐ.06		CPD −89° 38 Gr. 9ᵐ.5		Kurzperiod. Mondgl.*)	
1932		x	y	x	y	x	y	x	y	in 0″.01	
Jan.	0	−139″.48	+67″.87	+61″.46	+852″.22	−922″.03	−354″.98	−207″.53	−301″.70	0	−11
	1	139.50	67.53	61.44	851.88	922.05	355.32	207.39	302.02	+ 5	−10
	2	139.52	67.20	61.43	851.55	922.07	355.66	207.25	302.34	+ 8	− 7
	3	139.53	66.86	61.42	851.21	922.08	356.00	207.10	302.66	+ 9	− 2
	4	139.53	66.53	61.42	850.88	922.08	356.33	206.94	302.98	+ 9	+ 4
	5	−139.53	+66.20	+61.43	+850.55	−922.08	−356.66	−206.78	−303.29	+ 6	+ 8
	6	139.52	65.86	61.44	850.21	922.07	357.00	206.61	303.61	+ 1	+11
	7	139.50	65.53	61.46	849.88	922.05	357.33	206.44	303.92	− 4	+11
	8	139.48	65.20	61.48	849.55	922.03	357.66	206.26	304.23	− 8	+ 9
	9	139.45	64.87	61.51	849.22	922.00	357.99	206.08	304.54	−11	+ 5
	10	−139.41	+64.55	+61.54	+848.90	−921.96	−358.32	−205.89	−304.84	−11	0
	11	139.36	64.22	61.59	848.57	921.91	358.65	205.69	305.14	−10	− 4
	12	139.31	63.89	61.64	848.25	921.86	358.98	205.49	305.44	− 7	− 8
	13	139.25	63.57	61.70	847.93	921.80	359.30	205.28	305.74	− 3	−10
	14	139.19	63.25	61.76	847.61	921.74	359.62	205.07	306.03	+ 1	−10
	15	−139.12	+62.93	+61.83	+847.29	−921.67	−359.94	−204.85	−306.32	+ 5	− 9
	16	139.04	62.61	61.90	846.97	921.60	360.26	204.63	306.61	+ 8	− 5
	17	138.96	62.30	61.98	846.65	921.52	360.57	204.40	306.90	+10	− 1
	18	138.87	61.98	62.07	846.34	921.43	360.89	204.16	307.18	+10	+ 3
	19	138.78	61.67	62.16	846.03	921.34	361.20	203.92	307.46	+ 9	+ 7
	20	−138.68	+61.36	+62.26	+845.72	−921.24	−361.51	−203.68	−307.74	+ 6	+10
	21	138.57	61.05	62.37	845.42	921.13	361.82	203.43	308.01	+ 2	+11
	22	138.46	60.75	62.48	845.12	921.02	362.13	203.17	308.28	− 2	+ 9
	23	138.34	60.45	62.60	844.82	920.90	362.43	202.91	308.55	− 6	+ 6
	24	138.22	60.15	62.72	844.52	920.77	362.73	202.65	308.81	− 8	+ 2
	25	−138.09	+59.85	+62.85	+844.22	−920.64	−363.03	−202.38	−309.07	− 8	− 4
	26	137.95	59.56	62.99	843.93	920.50	363.32	202.11	309.33	− 6	− 8
	27	137.81	59.27	63.13	843.64	920.36	363.61	201.83	309.58	− 2	−11
	28	137.66	58.99	63.28	843.35	920.21	363.89	201.55	309.83	+ 2	−11
	29	137.51	58.71	63.43	843.07	920.06	364.17	201.26	310.07	+ 6	− 8
	30	−137.35	+58.43	+63.59	+842.79	−919.90	−364.45	−200.97	−310.31	+ 9	− 4
	31	137.18	58.15	63.76	842.51	919.73	364.73	200.67	310.55	+ 9	+ 2
Febr.	1	137.01	57.88	63.93	842.24	919.56	365.00	200.37	310.78	+ 7	+ 6
	2	136.84	57.61	64.10	841.98	919.39	365.27	200.07	311.01	+ 3	+10
	3	136.66	57.35	64.28	841.72	919.21	365.53	199.76	311.23	− 2	+11
	4	−136.47	+57.09	+64.47	+841.46	−919.02	−365.79	−199.45	−311.45	− 7	+10
	5	136.28	56.84	64.66	841.20	918.83	366.04	199.13	311.67	−10	+ 6
	6	−136.08	+56.59	+64.85	+840.95	−918.63	−366.29	−198.81	−311.88	−11	+ 2
Mittl. Ort		−119″.21	+79″.26	+81″.74	+863″.60	−901″.75	−343″.59	−187″.33	−307″.48		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in 0".01	
Febr. 6	−136".08	+56".59	+ 64".85	+840".95	−918".63	−366".29	−198".81	−311".88	−11	+ 2
7	135.88	56.34	65.05	840.71	918.43	366.54	198.49	312.09	−11	− 3
8	135.67	56.10	65.26	840.47	918.22	366.78	198.17	312.29	− 9	− 7
9	135.46	55.86	65.47	840.23	918.01	367.02	197.84	312.49	− 5	− 9
10	135.24	55.63	65.69	840.00	917.79	367.25	197.51	312.68	− 1	−10
11	−135.02	+55.40	+ 65.91	+839.77	−917.57	−367.48	−197.17	−312.87	+ 4	− 9
12	134.80	55.17	66.14	839.55	917.34	367.71	196.83	313.05	+ 7	− 7
13	134.57	54.95	66.37	839.33	917.11	367.93	196.48	313.23	+10	− 3
14	134.33	54.74	66.60	839.12	916.88	368.14	196.13	313.41	+11	+ 1
15	134.09	54.53	66.84	838.91	916.64	368.35	195.78	313.58	+10	+ 5
16	−133.85	+54.33	+ 67.08	+838.71	−916.40	−368.56	−195.43	−313.75	+ 8	+ 9
17	133.61	54.13	67.32	838.51	916.16	368.76	195.08	313.92	+ 4	+10
18	133.36	53.94	67.57	838.32	915.91	368.95	194.72	314.08	0	+10
19	133.10	53.75	67.82	838.13	915.66	369.14	194.36	314.24	− 4	+ 8
20	132.84	53.57	68.08	837.95	915.40	369.32	194.00	314.39	− 7	+ 3
21	−132.58	+53.39	+ 68.34	+837.77	−915.14	−369.50	−193.63	−314.54	− 8	− 2
22	132.31	53.22	68.61	837.60	914.87	369.67	193.26	314.68	− 7	− 7
23	132.04	53.05	68.88	837.43	914.60	369.84	192.89	314.81	− 4	−10
24	131.77	52.89	69.15	837.27	914.33	370.00	192.52	314.94	0	−11
25	131.50	52.74	69.42	837.12	914.06	370.16	192.14	315.07	+ 4	−10
26	−131.23	+52.59	+ 69.69	+836.97	−913.79	−370.31	−191.77	−315.19	+ 7	− 6
27	130.95	52.45	69.97	836.83	913.51	370.45	191.39	315.30	+ 8	− 1
28	130.67	52.31	70.25	836.69	913.23	370.59	191.01	315.41	+ 7	+ 5
29	130.38	52.18	70.54	836.56	912.94	370.72	190.63	315.52	+ 4	+ 9
März 1	130.09	52.05	70.83	836.44	912.65	370.85	190.24	315.62	− 1	+11
2	−129.80	+51.93	+ 71.12	+836.32	−912.36	−370.97	−189.86	−315.72	− 5	+11
3	129.51	51.82	71.41	836.21	912.07	371.08	189.47	315.81	− 9	+ 8
4	129.22	51.71	71.70	836.10	911.78	371.19	189.08	315.90	−11	+ 4
5	128.92	51.61	72.00	836.00	911.48	371.29	188.69	315.98	−12	− 1
6	128.63	51.52	72.29	835.90	911.19	371.38	188.30	316.06	−10	− 6
7	−128.33	+51.43	+ 72.59	+835.81	−910.89	−371.47	−187.91	−316.13	− 7	− 9
8	128.03	51.34	72.89	835.73	910.59	371.56	187.52	316.19	− 2	−10
9	127.73	51.26	73.19	835.65	910.29	371.64	187.12	316.25	+ 2	−10
10	127.42	51.19	73.50	835.58	909.98	371.71	186.73	316.31	+ 6	− 8
11	127.11	51.12	73.81	835.52	909.68	371.77	186.33	316.36	+ 9	− 4
12	−126.81	+51.06	+ 74.11	+835.46	−909.37	−371.83	−185.93	−316.41	+10	0
13	126.50	51.01	74.42	835.41	909.06	371.88	185.53	316.45	+10	+ 4
14	−126.19	+50.97	+ 74.73	+835.37	−908.75	−371.92	−185.13	−316.49	+ 9	+ 7
Mittl. Ort	−119".21	+79".26	+ 81".74	+863".60	−901".75	−343".59	−187".33	−307".48		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1932

Scheinbare Koordinaten für 12ʰ Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56ᵐ		BD +89° 3 Gr. 9.06ᵐ		BD +89° 37 Gr. 10.06ᵐ		CPD −89° 38 Gr. 9.5ᵐ		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in 0.01"	
März 14	−126.19"	+50.97"	+74.73"	+835.37"	−908.75"	−371.92"	−185.13"	−316.49"	+ 9	+ 7
15	125.88	50.93	75.04	835.33	908.44	371.96	184.73	316.52	+ 6	+10
16	125.58	50.90	75.34	835.29	908.13	372.00	184.33	316.55	+ 2	+11
17	125.27	50.87	75.65	835.26	907.82	372.03	183.94	316.57	− 2	+ 9
18	124.96	50.85	75.96	835.24	907.51	372.05	183.55	316.58	− 5	+ 5
19	−124.65	+50.84	+76.27	+835.23	−907.20	−372.06	−183.15	−316.59	− 7	0
20	124.34	50.83	76.58	835.22	906.89	372.07	182.76	316.60	− 7	− 5
21	124.03	50.83	76.89	835.22	906.57	372.07	182.36	316.60	− 4	− 9
22	123.72	50.84	77.20	835.23	906.26	372.07	181.96	316.60	− 1	−11
22	123.41	50.85	77.51	835.24	905.95	372.06	181.56	316.59	+ 3	−11
23	−123.10	+50.87	+77.82	+835.26	−905.64	−372.04	−181.17	−316.58	+ 7	− 8
24	122.80	50.89	78.13	835.28	905.34	372.01	180.77	316.56	+ 9	− 3
25	122.49	50.92	78.44	835.31	905.03	371.98	180.38	316.54	+ 8	+ 2
26	122.18	50.96	78.74	835.35	904.72	371.95	179.98	316.51	+ 5	+ 7
27	121.87	51.00	79.05	835.39	904.42	371.91	179.59	316.48	+ 1	+10
28	−121.57	+51.05	+79.35	+835.44	−904.11	−371.86	−179.20	−316.44	− 4	+11
29	121.26	51.10	79.65	835.49	903.81	371.81	178.81	316.40	− 9	+ 9
30	120.96	51.16	79.95	835.55	903.51	371.75	178.42	316.35	−11	+ 6
31	120.66	51.23	80.25	835.62	903.21	371.69	178.03	316.30	−12	+ 1
April 1	120.36	51.30	80.55	835.69	902.91	371.62	177.64	316.25	−11	− 4
2	−120.06	+51.38	+80.85	+835.77	−902.61	−371.54	−177.25	−316.19	− 8	− 8
3	119.77	51.46	81.14	835.85	902.32	371.45	176.87	316.12	− 4	−10
4	119.47	51.55	81.44	835.94	902.02	371.36	176.48	316.05	0	−10
5	119.18	51.65	81.73	836.04	901.73	371.27	176.10	315.98	+ 4	− 9
6	118.89	51.75	82.02	836.14	901.44	371.17	175.71	315.90	+ 7	− 6
7	−118.60	+51.86	+82.31	+836.25	−901.15	−371.06	−175.33	−315.81	+10	− 2
8	118.32	51.97	82.59	836.36	900.87	370.95	174.95	315.72	+10	+ 2
9	118.04	52.09	82.87	836.48	900.59	370.83	174.57	315.63	+ 9	+ 6
10	117.76	52.22	83.15	836.61	900.31	370.70	174.19	315.53	+ 7	+ 9
11	117.48	52.35	83.43	836.74	900.03	370.57	173.82	315.43	+ 3	+11
12	−117.21	+52.48	+83.70	+836.87	−899.76	−370.44	−173.45	−315.32	− 1	+10
13	116.94	52.62	83.97	837.01	899.49	370.30	173.08	315.21	− 4	+ 7
14	116.67	52.77	84.24	837.16	899.22	370.15	172.71	315.09	− 6	+ 2
15	116.41	52.92	84.50	837.31	898.95	370.00	172.35	314.97	− 6	− 3
16	116.15	53.07	84.76	837.46	898.69	369.85	171.98	314.84	− 5	− 7
17	−115.89	+53.23	+85.02	+837.62	−898.43	−369.69	−171.62	−314.71	− 1	−10
18	115.63	53.40	85.28	837.79	898.17	369.52	171.26	314.58	+ 3	−11
19	−115.38	+53.57	+85.53	+837.96	−897.91	−369.35	−170.91	−314.44	+ 6	− 9
Mittl. Ort	−119.21"	+79.26"	+81.74"	+863.60"	−901.75"	−343.59"	−187.33"	−307.48"		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1932

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in $0''.01$	
April 19	−115.38	+53.57	+ 85.53	+837.96	−897.91	−369.35	−170.91	−314.44	+ 6	− 9
20	115.13	53.75	85.78	838.14	897.66	369.17	170.56	314.30	+ 9	− 5
21	114.89	53.93	86.03	838.32	897.42	368.99	170.21	314.15	+ 9	0
22	114.65	54.12	86.27	838.51	897.18	368.80	169.86	314.00	+ 7	+ 6
23	114.41	54.31	86.51	838.70	896.94	368.61	169.51	313.85	+ 3	+ 9
24	−114.18	+54.51	+ 86.74	+838.89	−896.70	−368.41	−169.17	−313.69	− 2	+11
25	113.95	54.71	86.97	839.09	896.47	368.21	168.83	313.53	− 7	+10
26	113.72	54.91	87.19	839.29	896.25	368.01	168.49	313.36	−11	+ 7
27	113.50	55.12	87.41	839.50	896.03	367.80	168.16	313.19	−13	+ 3
28	113.28	55.33	87.62	839.71	895.81	367.59	167.83	313.01	−12	− 2
29	−113.07	+55.55	+ 87.83	+839.93	−895.59	−367.37	−167.50	−312.83	−10	− 6
30	112.86	55.77	88.04	840.15	895.38	367.15	167.18	312.64	− 7	− 9
Mai 1	112.66	56.00	88.24	840.38	895.18	366.92	166.86	312.45	− 2	−10
2	112.46	56.23	88.44	840.61	894.98	366.69	166.54	312.26	+ 2	− 9
3	112.27	56.46	88.63	840.84	894.78	366.46	166.23	312.06	+ 6	− 7
4	−112.08	+56.70	+ 88.82	+841.08	−894.59	−366.22	−165.92	−311.86	+ 9	− 3
5	111.89	56.94	89.00	841.32	894.41	365.98	165.61	311.66	+10	+ 1
6	111.71	57.18	89.18	841.56	894.23	365.74	165.31	311.45	+ 9	+ 5
7	111.53	57.43	89.36	841.81	894.05	365.49	165.01	311.24	+ 7	+ 8
8	111.36	57.68	89.53	842.06	893.88	365.24	164.72	311.03	+ 4	+10
9	−111.19	+57.94	+ 89.69	+842.32	−893.71	−364.98	−164.43	−310.81	0	+10
10	111.03	58.20	89.85	842.58	893.55	364.72	164.14	310.59	− 3	+ 8
11	110.88	58.46	90.01	842.84	893.40	364.46	163.86	310.37	− 6	+ 4
12	110.73	58.72	90.16	843.10	893.25	364.20	163.58	310.14	− 7	− 1
13	110.58	58.99	90.30	843.37	893.10	363.93	163.31	309.91	− 6	− 6
14	−110.44	+59.26	+ 90.44	+843.64	−892.96	−363.66	−163.04	−309.67	− 3	− 9
15	110.31	59.53	90.58	843.91	892.83	363.39	162.77	309.43	+ 1	−11
16	110.18	59.81	90.71	844.19	892.70	363.11	162.51	309.19	+ 6	−10
17	110.05	60.09	90.83	844.47	892.57	362.83	162.25	308.95	+ 9	− 7
18	109.93	60.37	90.95	844.75	892.45	362.55	162.00	308.70	+10	− 2
19	−109.82	+60.65	+ 91.06	+845.03	−892.34	−362.27	−161.75	−308.45	+ 9	+ 4
20	109.71	60.94	91.17	845.32	892.23	361.98	161.51	308.20	+ 6	+ 8
21	109.61	61.23	91.27	845.61	892.13	361.69	161.27	307.94	+ 1	+11
22	109.51	61.52	91.36	845.90	892.03	361.40	161.04	307.68	− 5	+11
23	109.42	61.82	91.45	846.20	891.94	361.11	160.81	307.42	− 9	+ 9
24	−109.33	+62.11	+ 91.54	+846.49	−891.85	−360.81	−160.58	−307.16	−12	+ 4
25	109.25	62.41	91.62	846.79	891.77	360.52	160.36	306.90	−13	0
26	−109.18	+62.71	+ 91.69	+847.09	−891.70	−360.22	−160.14	−306.63	−11	− 5
Mittl. Ort	−119.21	+79.26	+ 81.74	+863.60	−901.75	−343.59	−187.33	−307.48		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1932

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10ᵐ56		BD +89° 3 Gr. 9ᵐ06		BD +89° 37 Gr. 10ᵐ06		CPD −89° 38 Gr. 9ᵐ5		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in 0″01	
Mai 26	−109″18	+62″71	+91″69	+847″09	−891″70	−360″22	−160″14	−306″63	−11	− 5
27	109.11	63.01	91.76	847.39	891.63	359.92	159.93	306.36	− 8	− 8
28	109.05	63.31	91.83	847.69	891.56	359.62	159.72	306.08	− 4	−10
29	108.99	63.61	91.89	847.99	891.50	359.32	159.52	305.81	0	−10
30	108.94	63.92	91.94	848.30	891.45	359.01	159.32	305.53	+ 4	− 8
31	−108.89	+64.22	+91.99	+848.60	−891.40	−358.71	−159.13	−305.24	+ 7	− 5
Juni 1	108.85	64.53	92.03	848.91	891.36	358.40	158.94	304.96	+ 9	− 1
2	108.82	64.84	92.06	849.22	891.32	358.09	158.76	304.68	+ 9	+ 4
3	108.79	65.14	92.09	849.52	891.29	357.79	158.58	304.39	+ 8	+ 7
4	108.77	65.45	92.11	849.83	891.27	357.48	158.41	304.10	+ 5	+10
5	−108.75	+65.76	+92.13	+850.14	−891.25	−357.17	−158.25	−303.82	+ 1	+10
6	108.74	66.07	92.14	850.45	891.24	356.86	158.09	303.53	− 2	+ 9
7	108.73	66.39	92.14	850.77	891.23	356.54	157.93	303.23	− 5	+ 6
8	108.73	66.70	92.14	851.08	891.23	356.22	157.78	302.94	− 7	+ 1
9	108.73	67.02	92.14	851.40	891.23	355.90	157.64	302.64	− 7	− 4
10	−108.74	+67.33	+92.13	+851.71	−891.24	−355.58	−157.50	−302.34	− 4	− 8
11	108.76	67.65	92.11	852.02	891.26	355.27	157.37	302.04	0	−11
12	108.79	67.96	92.08	852.34	891.28	354.95	157.24	301.73	+ 4	−11
13	108.82	68.28	92.05	852.65	891.31	354.64	157.11	301.43	+ 8	− 9
14	108.85	68.59	92.02	852.96	891.34	354.32	156.99	301.13	+10	− 4
15	−108.89	+68.91	+91.98	+853.28	−891.38	−354.01	−156.88	−300.82	+10	+ 1
16	108.94	69.22	91.93	853.59	891.43	353.70	156.77	300.52	+ 8	+ 6
17	108.99	69.54	91.88	853.91	891.48	353.39	156.67	300.21	+ 4	+10
18	109.05	69.86	91.82	854.23	891.54	353.07	156.57	299.90	− 2	+11
19	109.11	70.17	91.75	854.54	891.60	352.76	156.48	299.59	− 7	+10
20	−109.18	+70.49	+91.68	+854.85	−891.67	−352.45	−156.40	−299.28	−11	+ 6
21	109.26	70.80	91.61	855.17	891.75	352.13	156.32	298.97	−12	+ 2
22	109.34	71.11	91.53	855.48	891.83	351.82	156.25	298.66	−12	− 3
23	109.42	71.43	91.44	855.79	891.91	351.51	156.18	298.35	− 9	− 7
24	109.51	71.74	91.35	856.10	892.00	351.20	156.12	298.04	− 6	−10
25	−109.61	+72.05	+91.26	+856.41	−892.10	−350.89	−156.06	−297.72	− 1	−10
26	109.71	72.36	91.16	856.71	892.20	350.59	156.01	297.41	+ 3	− 9
27	109.81	72.66	91.05	857.02	892.30	350.28	155.97	297.10	+ 6	− 6
28	109.92	72.97	90.93	857.33	892.41	349.97	155.93	296.79	+ 8	− 2
29	110.04	73.28	90.81	857.64	892.53	349.66	155.90	296.48	+ 9	+ 2
30	−110.16	+73.58	+90.69	+857.94	−892.65	−349.36	−155.87	−296.16	+ 8	+ 6
Juli 1	110.29	73.89	90.56	858.25	892.78	349.05	155.85	295.85	+ 6	+ 9
2	−110.43	+74.19	+90.42	+858.55	−892.92	−348.75	−155.83	−295.54	+ 3	+10
Mittl. Ort	−119″21	+79″26	+81″74	+863″60	−901″75	−343″59	−187″33	−307″48		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1932

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in $0''.01$	
Juli 2	−110.43	+74.19	+90.42	+858.55	−892.92	−348.75	−155.83	−295.54	+ 3	+10
3	110.57	74.49	90.28	858.85	893.06	348.45	155.82	295.23	− 1	+10
4	110.72	74.79	90.14	859.15	893.20	348.15	155.82	294.92	− 5	+ 7
5	110.87	75.08	89.99	859.44	893.35	347.86	155.82	294.61	− 7	+ 3
6	111.03	75.38	89.83	859.74	893.50	347.56	155.83	294.30	− 7	− 2
7	−111.19	+75.67	+89.67	+860.03	−893.66	−347.27	−155.84	−293.99	− 6	− 7
8	111.36	75.96	89.50	860.32	893.83	346.98	155.86	293.68	− 3	−10
9	111.53	76.25	89.33	860.61	894.00	346.69	155.88	293.38	+ 2	−11
10	111.70	76.54	89.15	860.90	894.17	346.40	155.91	293.07	+ 6	−10
11	111.88	76.82	88.97	861.18	894.35	346.12	155.95	292.77	+ 9	− 6
12	−112.07	+77.10	+88.78	+861.46	−894.54	−345.84	−155.99	−292.47	+10	− 1
13	112.26	77.38	88.59	861.74	894.73	345.56	156.04	292.16	+ 9	+ 5
14	112.46	77.66	88.39	862.02	894.92	345.28	156.09	291.86	+ 6	+ 9
15	112.66	77.94	88.19	862.30	895.12	345.00	156.15	291.56	+ 1	+11
16	112.87	78.22	87.98	862.58	895.33	344.72	156.21	291.26	− 4	+11
17	−113.08	+78.49	+87.77	+862.85	−895.54	−344.45	−156.28	−290.97	− 9	+ 8
18	113.30	78.76	87.55	863.13	895.76	344.18	156.36	290.68	−11	+ 4
19	113.52	79.03	87.33	863.40	895.98	343.91	156.44	290.39	−12	− 2
20	113.74	79.29	87.10	863.67	896.20	343.65	156.52	290.10	−10	− 6
21	113.97	79.55	86.87	863.93	896.43	343.39	156.61	289.81	− 7	− 9
22	−114.21	+79.81	+86.64	+864.19	−896.67	−343.13	−156.71	−289.53	− 3	−10
23	114.45	80.07	86.40	864.44	896.91	342.87	156.81	289.24	+ 2	−10
24	114.69	80.32	86.16	864.69	897.15	342.62	156.92	288.96	+ 5	− 7
25	114.93	80.57	85.91	864.94	897.39	342.37	157.03	288.68	+ 8	− 4
26	115.18	80.82	85.66	865.18	897.64	342.12	157.15	288.40	+ 9	0
27	−115.44	+81.06	+85.40	+865.42	−897.90	−341.88	−157.27	−288.13	+ 9	+ 4
28	115.70	81.30	85.14	865.66	898.16	341.64	157.40	287.86	+ 7	+ 8
29	115.96	81.54	84.87	865.90	898.43	341.40	157.53	287.59	+ 4	+10
30	116.23	81.77	84.60	866.13	898.70	341.17	157.67	287.32	0	+10
31	116.50	82.00	84.33	866.36	898.97	340.94	157.81	287.06	− 3	+ 8
Aug. 1	−116.78	+82.23	+84.05	+866.59	−899.25	−340.71	−157.96	−286.80	− 6	+ 5
2	117.06	82.46	83.77	866.82	899.53	340.48	158.11	286.54	− 8	0
3	117.34	82.68	83.49	867.04	899.81	340.26	158.27	286.29	− 7	− 5
4	117.63	82.90	83.20	867.26	900.10	340.04	158.44	286.04	− 5	− 9
5	117.92	83.11	82.91	867.47	900.39	339.83	158.61	285.79	− 1	−11
6	−118.22	+83.32	+82.61	+867.68	−900.68	−339.62	−158.78	−285.55	+ 4	−11
7	118.52	83.53	82.31	867.89	900.98	339.41	158.96	285.31	+ 8	− 8
8	−118.82	+83.73	+82.01	+868.10	−901.28	−339.21	−159.14	−285.07	+10	− 3
Mittl. Ort	−119.21	+79.26	+81.74	+863.60	−901.75	−343.59	−187.33	−307.48		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1932

Scheinbare Koordinaten für 12^{h} Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^{\mathrm{m}}56$		BD +89° 3 Gr. $9^{\mathrm{m}}06$		BD +89° 37 Gr. $10^{\mathrm{m}}06$		CPD −89° 38 Gr. $9^{\mathrm{m}}5$		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in 0″.01	
Aug. 8	−118″.82	+83″.73	+82″.01	+868″.10	−901″.28	−339″.21	−159″.14	−285″.07	+10	− 3
9	119.13	83.93	81.70	868.30	901.58	339.01	159.33	284.84	+ 9	+ 2
10	119.44	84.13	81.39	868.49	901.89	338.82	159.52	284.61	+ 7	+ 7
11	119.75	84.32	81.08	868.68	902.20	338.63	159.72	284.38	+ 2	+11
12	120.07	84.51	80.76	868.87	902.52	338.44	159.92	284.16	− 3	+11
13	−120.39	+84.70	+80.44	+869.06	−902.84	−338.25	−160.12	−283.94	− 7	+ 9
14	120.71	84.88	80.12	869.24	903.16	338.07	160.33	283.73	−11	+ 6
15	121.04	85.06	79.79	869.41	903.49	337.89	160.54	283.52	−12	+ 1
16	121.37	85.23	79.46	869.58	903.82	337.72	160.76	283.32	−11	− 4
17	121.70	85.40	79.13	869.75	904.15	337.55	160.98	283.12	− 8	− 8
18	−122.04	+85.57	+78.79	+869.92	−904.48	−337.38	−161.21	−282.92	− 4	−10
19	122.38	85.73	78.45	870.08	904.82	337.22	161.44	282.73	0	−10
20	122.72	85.89	78.11	870.24	905.16	337.06	161.67	282.54	+ 4	− 8
21	123.06	86.04	77.77	870.39	905.50	336.91	161.91	282.36	+ 7	− 5
22	123.41	86.19	77.42	870.54	905.85	336.76	162.15	282.18	+ 9	− 1
23	−123.76	+86.33	+77.07	+870.68	−906.20	−336.62	−162.39	−282.01	+ 9	+ 3
24	124.11	86.47	76.72	870.82	906.55	336.48	162.64	281.85	+ 8	+ 7
25	124.46	86.61	76.37	870.96	906.90	336.34	162.89	281.69	+ 6	+ 9
26	124.82	86.74	76.01	871.09	907.26	336.21	163.15	281.53	+ 2	+10
27	125.18	86.87	75.65	871.22	907.62	336.08	163.41	281.38	− 2	+ 9
28	−125.54	+86.99	+75.29	+871.34	−907.98	−335.96	−163.67	−281.23	− 5	+ 7
29	125.90	87.11	74.93	871.46	908.34	335.84	163.93	281.09	− 7	+ 2
30	126.26	87.22	74.56	871.57	908.70	335.73	164.20	280.95	− 7	− 3
31	126.63	87.33	74.19	871.68	909.07	335.62	164.47	280.82	− 5	− 7
Sept. 1	127.00	87.44	73.82	871.79	909.44	335.51	164.74	280.69	− 2	−10
2	−127.37	+87.54	+73.45	+871.89	−909.81	−335.41	−165.02	−280.57	+ 2	−11
3	127.74	87.64	73.08	871.99	910.18	335.31	165.30	280.45	+ 6	− 9
4	128.11	87.73	72.71	872.08	910.55	335.22	165.58	280.34	+ 9	− 5
5	128.49	87.82	72.33	872.17	910.93	335.13	165.86	280.23	+ 9	0
6	128.87	87.90	71.95	872.25	911.31	335.05	166.14	280.13	+ 8	+ 6
7	−129.25	+87.98	+71.57	+872.33	−911.69	−334.97	−166.43	−280.04	+ 4	+10
8	129.63	88.05	71.19	872.40	912.07	334.89	166.72	279.95	− 1	+11
9	130.01	88.12	70.81	872.47	912.45	334.82	167.01	279.87	− 6	+10
10	130.39	88.18	70.42	872.53	912.83	334.76	167.30	279.79	−10	+ 7
11	130.77	88.24	70.04	872.59	913.21	334.70	167.60	279.72	−12	+ 2
12	−131.16	+88.30	+69.66	+872.65	−913.60	−334.64	−167.89	−279.65	−12	− 3
13	131.55	88.35	69.27	872.70	913.99	334.59	168.19	279.59	− 9	− 7
14	−131.93	+88.40	+68.88	+872.75	−914.37	−334.55	−168.49	−279.54	− 6	−10
Mittl. Ort	−119″.21	+79″.26	+81″.74	+863″.60	−901″.75	−343″.59	−187″.33	−307″.48		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1932

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10^m56		BD +89° 3 Gr. 9^m06		BD +89° 37 Gr. 10^m06		CPD −89° 38 Gr. 9^m5		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in 0.″01	
Sept. 14	−131.″93	+88.″40	+68.″88	+872.″75	−914.″37	−334.″55	−168.″49	−279.″54	− 6	−10
15	132.32	88.44	68.49	872.79	914.76	334.51	168.79	279.49	− 1	−10
16	132.71	88.47	68.10	872.83	915.15	334.47	169.09	279.45	+ 3	− 9
17	133.10	88.50	67.71	872.86	915.54	334.44	169.39	279.41	+ 6	− 7
18	133.49	88.52	67.32	872.89	915.93	334.41	169.70	279.38	+ 8	− 3
19	−133.88	+88.54	+66.93	+872.91	−916.32	−334.39	−170.00	−279.36	+ 9	+ 2
20	134.28	88.56	66.53	872.93	916.72	334.37	170.30	279.34	+ 9	+ 6
21	134.67	88.57	66.14	872.94	917.11	334.36	170.61	279.33	+ 7	+ 9
22	135.06	88.58	65.75	872.95	917.50	334.35	170.91	279.32	+ 4	+10
23	135.46	88.59	65.35	872.95	917.89	334.35	171.21	279.32	0	+10
24	−135.85	+88.59	+64.96	+872.95	−918.28	−334.35	−171.52	−279.33	− 3	+ 8
25	136.24	88.59	64.57	872.94	918.67	334.36	171.82	279.34	− 6	+ 4
26	136.63	88.58	64.18	872.93	919.06	334.37	172.12	279.36	− 7	− 1
27	137.02	88.56	63.79	872.91	919.45	334.38	172.43	279.38	− 6	− 6
28	137.42	88.54	63.39	872.89	919.84	334.40	172.73	279.41	− 3	−10
29	−137.81	+88.52	+63.00	+872.87	−920.23	−334.43	−173.04	−279.45	+ 1	−11
30	138.20	88.49	62.61	872.84	920.63	334.46	173.34	279.50	+ 5	−10
Okt. 1	138.59	88.45	62.21	872.80	921.02	334.50	173.64	279.55	+ 8	− 7
2	138.98	88.41	61.82	872.76	921.41	334.54	173.94	279.60	+ 9	− 2
3	139.37	88.37	61.43	872.72	921.80	334.59	174.25	279.66	+ 8	+ 4
4	−139.76	+88.32	+61.04	+872.67	−922.19	−334.64	−174.55	−279.73	+ 5	+ 8
5	140.15	88.26	60.65	872.61	922.58	334.70	174.85	279.80	+ 1	+11
6	140.54	88.20	60.26	872.55	922.97	334.76	175.15	279.88	− 5	+11
7	140.92	88.14	59.88	872.49	923.35	334.82	175.45	279.96	− 9	+ 9
8	141.31	88.07	59.49	872.42	923.74	334.89	175.74	280.05	−12	+ 4
9	−141.70	+87.99	+59.10	+872.35	−924.13	−334.97	−176.03	−280.15	−13	− 1
10	142.08	87.91	58.72	872.27	924.51	335.05	176.32	280.26	−12	− 5
11	142.46	87.83	58.34	872.19	924.89	335.13	176.61	280.37	− 8	− 9
12	142.84	87.74	57.96	872.10	925.27	335.22	176.90	280.48	− 3	−10
13	143.22	87.64	57.58	872.00	925.65	335.32	177.19	280.60	+ 1	−10
14	−143.60	+87.54	+57.20	+871.90	−926.03	−335.42	−177.47	−280.73	+ 5	− 8
15	143.98	87.44	56.82	871.80	926.41	335.52	177.75	280.86	+ 8	− 4
16	144.36	87.33	56.44	871.69	926.79	335.63	178.03	281.00	+ 9	0
17	144.73	87.22	56.07	871.58	927.16	335.74	178.31	281.14	+ 9	+ 4
18	145.10	87.10	55.70	871.46	927.53	335.86	178.58	281.29	+ 7	+ 8
19	−145.47	+86.97	+55.33	+871.33	−927.90	−335.98	−178.85	−281.45	+ 5	+10
20	145.84	86.84	54.96	871.20	928.27	336.11	179.12	281.61	+ 1	+10
21	−146.21	+86.71	+54.59	+871.07	−928.64	−336.24	−179.38	−281.78	− 2	+ 9
Mittl. Ort	−119.″21	+79.″26	+81.″74	+863.″60	−901.″75	−343.″59	−187.″33	−307.″48		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1932

Scheinbare Koordinaten für 12ʰ Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10ᵐ.56		BD +89° 3 Gr. 9ᵐ.06		BD +89° 37 Gr. 10ᵐ.06		CPD −89° 38 Gr. 9ᵐ.5		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in 0″.01	
Okt. 21	−146″.21	+86″.71	+54″.59	+871″.07	−928″.64	−336″.24	−179″.38	−281″.78	− 2	+ 9
22	146.57	86.57	54.23	870.93	929.00	336.38	179.64	281.95	− 5	+ 6
23	146.93	86.43	53.87	870.79	929.36	336.52	179.90	282.13	− 6	+ 1
24	147.29	86.29	53.51	870.65	929.72	336.67	180.15	282.31	− 6	− 4
25	147.65	86.14	53.15	870.51	930.08	336.82	180.40	282.50	− 3	− 8
26	−148.00	+85.99	+52.79	+870.36	−930.44	−336.98	−180.65	−282.69	0	−11
27	148.35	85.83	52.44	870.20	930.79	337.14	180.89	282.89	+ 4	−11
28	148.70	85.66	52.09	870.04	931.14	337.30	181.13	283.09	+ 8	− 9
29	149.05	85.49	51.75	869.87	931.49	337.47	181.36	283.30	+10	− 4
30	149.39	85.32	51.41	869.70	931.83	337.65	181.59	283.52	+10	+ 1
31	−149.73	+85.14	+51.07	+869.52	−932.17	−337.83	−181.82	−283.74	+ 7	+ 6
Nov. 1	150.07	84.96	50.73	869.34	932.51	338.01	182.05	283.96	+ 3	+10
2	150.40	84.78	50.39	869.15	932.84	338.19	182.27	284.19	− 2	+11
3	150.73	84.59	50.06	868.96	933.17	338.38	182.48	284.42	− 8	+10
4	151.06	84.40	49.73	868.76	933.50	338.58	182.69	284.66	−11	+ 6
5	−151.38	+84.20	+49.40	+868.56	−933.82	−338.78	−182.89	−284.90	−13	+ 1
6	151.70	84.00	49.08	868.36	934.14	338.98	183.09	285.14	−12	− 4
7	152.02	83.79	48.76	868.15	934.46	339.19	183.29	285.39	−10	− 8
8	152.33	83.58	48.45	867.94	934.77	339.40	183.48	285.65	− 6	−10
9	152.64	83.37	48.14	867.73	935.08	339.62	183.66	285.91	− 1	−10
10	−152.95	+83.15	+47.83	+867.51	−935.39	−339.84	−183.84	−286.17	+ 3	− 9
11	153.25	82.93	47.53	867.29	935.69	340.06	184.02	286.43	+ 6	− 6
12	153.55	82.70	47.23	867.06	935.99	340.29	184.19	286.70	+ 8	− 2
13	153.85	82.47	46.94	866.83	936.28	340.52	184.35	286.98	+ 9	+ 3
14	154.14	82.23	46.65	866.59	936.57	340.76	184.51	287.26	+ 7	+ 6
15	−154.42	+81.99	+46.36	+866.35	−936.85	−341.00	−184.66	−287.54	+ 5	+ 9
16	154.70	81.75	46.08	866.11	937.13	341.24	184.81	287.83	+ 2	+10
17	154.97	81.50	45.80	865.86	937.40	341.49	184.95	288.12	− 1	+ 9
18	155.24	81.25	45.53	865.61	937.67	341.74	185.09	288.41	− 4	+ 7
19	155.51	80.99	45.26	865.36	937.94	342.00	185.22	288.70	− 6	+ 3
20	−155.77	+80.73	+45.00	+865.10	−938.20	−342.26	−185.35	−288.99	− 6	− 2
21	156.03	80.47	44.74	864.84	938.46	342.52	185.47	289.29	− 4	− 7
22	156.29	80.21	44.49	864.58	938.72	342.79	185.58	289.59	− 1	−10
23	156.54	79.94	44.24	864.31	938.97	343.06	185.69	289.90	+ 3	−11
24	156.79	79.67	44.00	864.04	939.22	343.33	185.79	290.22	+ 7	−10
25	−157.03	+79.40	+43.76	+863.77	−939.46	−343.61	−185.88	−290.53	+10	− 6
26	157.26	79.12	43.53	863.49	939.69	343.89	185.97	290.85	+11	− 1
27	−157.49	+78.84	+43.30	+863.21	−939.92	−344.17	−186.05	−291.16	+ 9	+ 5
Mittl. Ort	−119″.21	+79″.26	+81″.74	+863″.60	−901″.75	−343″.59	−187″.33	−307″.48		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1932

Scheinbare Koordinaten für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10.56m		BD +89° 3 Gr. 9.06m		BD +89° 37 Gr. 10.06m		CPD −89° 38 Gr. 9.5m		Kurzperiod. Mondgl.*)	
1932	x	y	x	y	x	y	x	y	in 0.01"	
Nov. 27	−157.49"	+78.84"	+43.30"	+863.21"	−939.92"	−344.17"	−186.05"	−291.16"	+ 9	+ 5
28	157.71	78.55	43.08	862.93	940.14	344.45	186.13	291.48	+ 6	+ 9
29	157.93	78.26	42.86	862.64	940.36	344.74	186.20	291.80	0	+11
30	158.15	77.97	42.64	862.35	940.57	345.03	186.26	292.12	− 5	+11
Dez. 1	158.36	77.68	42.43	862.06	940.78	345.32	186.32	292.45	−10	+ 8
2	−158.56	+77.39	+42.23	+861.77	−940.98	−345.62	−186.37	−292.77	−12	+ 3
3	158.76	77.09	42.03	861.47	941.18	345.92	186.42	293.10	−13	− 2
4	158.95	76.79	41.84	861.17	941.37	346.22	186.46	293.43	−11	− 6
5	159.14	76.49	41.65	860.87	941.56	346.52	186.49	293.76	− 8	− 9
6	159.32	76.18	41.47	860.56	941.74	346.83	186.51	294.09	− 3	−11
7	−159.49	+75.87	+41.30	+860.25	−941.91	−347.14	−186.53	−294.42	+ 1	−10
8	159.66	75.56	41.13	859.94	942.08	347.45	186.54	294.75	+ 5	− 7
9	159.82	75.25	40.97	859.63	942.24	347.76	186.55	295.09	+ 7	− 3
10	159.97	74.93	40.82	859.32	942.39	348.08	186.55	295.42	+ 8	+ 1
11	160.12	74.62	40.67	859.01	942.54	348.39	186.54	295.75	+ 8	+ 5
12	−160.27	+74.30	+40.52	+858.69	−942.69	−348.71	−186.53	−296.09	+ 6	+ 8
13	160.41	73.98	40.38	858.37	942.83	349.03	186.51	296.43	+ 3	+10
14	160.54	73.66	40.25	858.05	942.96	349.35	186.49	296.77	0	+10
15	160.66	73.34	40.13	857.73	943.08	349.67	186.46	297.10	− 4	+ 8
16	160.78	73.01	40.01	857.41	943.20	350.00	186.42	297.44	− 6	+ 5
17	−160.89	+72.69	+39.90	+857.08	−943.31	−350.32	−186.38	−297.77	− 7	0
18	161.00	72.37	39.79	856.76	943.42	350.65	186.33	298.11	− 6	− 5
19	161.10	72.04	39.69	856.43	943.52	350.98	186.27	298.45	− 3	− 9
20	161.19	71.71	39.59	856.11	943.62	351.30	186.20	298.78	+ 1	−11
21	161.28	71.38	39.50	855.78	943.71	351.63	186.13	299.12	+ 6	−10
22	−161.36	+71.05	+39.42	+855.45	−943.79	−351.96	−186.05	−299.46	+ 9	− 8
23	161.44	70.72	39.34	855.12	943.87	352.29	185.97	299.79	+11	− 3
24	161.51	70.39	39.27	854.79	943.94	352.63	185.88	300.13	+11	+ 3
25	161.57	70.06	39.21	854.46	944.00	352.96	185.78	300.47	+ 8	+ 8
26	161.62	69.73	39.15	854.13	944.05	353.29	185.68	300.80	+ 3	+11
27	−161.67	+69.40	+39.10	+853.80	−944.10	−353.63	−185.57	−301.13	− 2	+11
28	161.71	69.06	39.06	853.47	944.14	353.96	185.45	301.46	− 7	+ 9
29	161.75	68.73	39.02	853.13	944.18	354.29	185.33	301.78	−11	+ 5
30	161.78	68.40	38.99	852.80	944.21	354.62	185.20	302.11	−12	0
31	161.80	68.07	38.96	852.47	944.23	354.96	185.07	302.44	−12	− 5
32	−161.82	+67.74	+38.94	+852.14	−944.25	−355.29	−184.93	−302.76	− 9	− 9
Mittl. Ort	−119.21"	+79.26"	+81.74"	+863.60"	−901.75"	−343.59"	−187.33"	−307.48"		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34215 + 0.00031\,T)\sin\Omega + 0.00415\sin 2\Omega - 0.02526\sin 2L_\odot$$
$$+ 0.00251\sin M_\odot - 0.00099\sin(2L_\odot + M_\odot) + 0.00042\sin(2L_\odot - M_\odot)$$
$$+ 0.00025\sin(2L_\odot - \Omega)$$

$$A' = -0.00405\sin 2L_☾ + 0.00135\sin M_☾ - 0.00068\sin(2L_☾ - \Omega)$$
$$- 0.00052\sin(2L_☾ + M_☾) + 0.00030\sin(2L_☾ - 2L_\odot - M_☾)$$
$$+ 0.00023\sin(2L_☾ - M_☾) + 0.00012\sin(2L_☾ - 2L_\odot)$$

$$B = -(9''.210 + 0''.001\,T)\cos\Omega + 0''.090\cos 2\Omega - 0''.551\cos 2L_\odot$$
$$- 0''.022\cos(2L_\odot + M_\odot) + 0''.009\cos(2L_\odot - M_\odot)$$
$$+ 0''.007\cos(2L_\odot - \Omega)$$

$$B' = -0''.089\cos 2L_☾ - 0''.018\cos(2L_☾ - \Omega) - 0''.011\cos(2L_☾ + M_☾)$$
$$+ 0''.005\cos(2L_☾ - M_☾)$$

$$C = -20''.47\cos\odot\cos\varepsilon$$
$$D = -20''.47\sin\odot$$
$$E = -(0^s.0029 - 0^s.0004\,T)\sin\Omega$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren

t Zeit seit Beginn des annus fictus in Bruchteilen des tropischen Jahres

$t = 0$ für 1932 Januar $1^d.5638$

$a = m + \frac{1}{15}\, n \sin\alpha \operatorname{tg}\delta$	$a' = n\cos\alpha$
$b = \frac{1}{15}\cos\alpha\operatorname{tg}\delta$	$b' = -\sin\alpha$
$c = \frac{1}{15}\cos\alpha\sec\delta$	$c' = \operatorname{tg}\varepsilon\cos\delta - \sin\alpha\sin\delta$
$d = \frac{1}{15}\sin\alpha\sec\delta$	$d' = \cos\alpha\sin\delta$

Für 1932.0 gilt: $m = +3^s.0729$, $n = +20''.044$, $\varepsilon = 23^\circ\,26'\,53''.27$

$$\alpha_{\text{app.}} = \alpha_{1932.0} + t\,\mu_\alpha + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\delta_{\text{app.}} = \delta_{1932.0} + t\,\mu_\delta + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

μ_α, μ_δ jährliche Eigenbewegung in Rektaszension, bez. Deklination

Setzt man

$f = mA + E$	$f' = mA'$	$i = C\operatorname{tg}\varepsilon$
$g\sin G = B$	$g'\sin G' = B'$	$h\sin H = C$
$g\cos G = nA$	$g'\cos G' = nA'$	$h\cos H = D$,

so wird:

$$\alpha_{\text{app.}} = \alpha_{1932.0} + t\,\mu_\alpha + f + \tfrac{1}{15}\,g\sin(G+\alpha)\operatorname{tg}\delta + \tfrac{1}{15}\,h\sin(H+\alpha)\sec\delta$$
$$+ [f' + \tfrac{1}{15}\,g'\sin(G'+\alpha)\operatorname{tg}\delta]$$

$$\delta_{\text{app.}} = \delta_{1932.0} + t\,\mu_\delta + g\cos(G+\alpha) + h\cos(H+\alpha)\sin\delta + i\cos\delta$$
$$+ [g'\cos(G'+\alpha)]$$

Reduktionsgrößen 1932

für 12^h Sternzeit Greenwich

Welt-Zeit	t	log A	log B	log C	log D	E
1932						
Jan. 1.2	−0.0009	7.76641	0.93420$_n$	0.49582$_n$	1.30496	0.0000
11.2	+0.0264	8.64797	0.93902$_n$	0.80284$_n$	1.28472	0
21.2	0.0537	8.90881	0.94635$_n$	0.97160$_n$	1.24895	0
31.1	0.0810	9.06036	0.95521$_n$	1.08228$_n$	1.19496	0
Febr. 10.1	0.1083	9.16328	0.96435$_n$	1.15897$_n$	1.11760	+0.0001
20.1	0.1356	9.23872	0.97262$_n$	1.21224$_n$	1.00685	+0.0001
März 1.1	0.1629	9.29710	0.97914$_n$	1.24738$_n$	0.83942	1
11.0	0.1902	9.34473	0.98317$_n$	1.26734$_n$	0.53970	2
21.0	0.2175	9.38578	0.98439$_n$	1.27367$_n$	8.81291$_n$	2
31.0	0.2448	9.42334	0.98254$_n$	1.26691$_n$	0.55303$_n$	3
April 9.9	0.2721	9.45944	0.97804$_n$	1.24699$_n$	0.84236$_n$	+0.0003
19.9	0.2994	9.49529	0.97128$_n$	1.21280$_n$	1.00514$_n$	3
29.9	0.3267	9.53150	0.96289$_n$	1.16212$_n$	1.11307$_n$	3
Mai 9.9	0.3540	9.56813	0.95381$_n$	1.09068$_n$	1.18882$_n$	3
19.8	0.3813	9.60479	0.94502$_n$	0.99047$_n$	1.24234$_n$	4
29.8	0.4086	9.64097	0.93732$_n$	0.84385$_n$	1.27882$_n$	+0.0004
Juni 8.8	0.4359	9.67598	0.93181$_n$	0.60108$_n$	1.30105$_n$	4
18.8	0.4632	9.70930	0.92886$_n$	9.95376$_n$	1.31061$_n$	4
28.7	0.4905	9.74042	0.92891$_n$	0.34498	1.30807$_n$	4
Juli 8.7	0.5179	9.76896	0.93166$_n$	0.72123	1.29332$_n$	5
18.7	0.5452	9.79476	0.93686$_n$	0.91217	1.26555$_n$	+0.0005
28.6	0.5725	9.81774	0.94384$_n$	1.03559	1.22279$_n$	5
Aug. 7.6	0.5998	9.83799	0.95163$_n$	1.12205	1.16164$_n$	5
17.6	0.6271	9.85573	0.95928$_n$	1.18398	1.07573$_n$	5
27.6	0.6544	9.87126	0.96600$_n$	1.22750	0.95221$_n$	6
Sept. 6.5	0.6817	9.88504	0.97086$_n$	1.25585	0.75921$_n$	+0.0006
16.5	0.7090	9.89755	0.97336$_n$	1.27077	0.37088$_n$	6
26.5	0.7363	9.90935	0.97299$_n$	1.27298	0.05346	6
Okt. 6.5	0.7636	9.92100	0.96969$_n$	1.26240	0.66257	6
16.4	0.7909	9.93300	0.96365$_n$	1.23815	0.90031	7
26.4	0.8182	9.94573	0.95521$_n$	1.19835	1.04458	+0.0007
Nov. 5.4	0.8455	9.95942	0.94507$_n$	1.13950	1.14289	7
15.3	0.8728	9.97414	0.93435$_n$	1.05530	1.21219	7
25.3	0.9001	9.98971	0.92428$_n$	0.93288	1.26040	7
Dez. 5.3	0.9274	0.00586	0.91593$_n$	0.74052	1.29161	8
15.3	0.9547	0.02217	0.91041$_n$	0.35334	1.30794	+0.0008
25.2	0.9820	0.03821	0.90827$_n$	0.02816$_n$	1.31040	8
35.2	1.0093	0.05355	0.90982$_n$	0.63939$_n$	1.29907	+0.0009

Reduktionsgrößen 1932

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1932	h	s	s	h m		h m			"
Jan. 0	6.6	−0.0043	+0.003	0.9339	18 0.5	1.3104	23 29.3	0.0734_n	−1.184
1	6.6	−0.0015	0.015	0.9343	18 2.6	1.3102	23 25.6	0.1229_n	1.327
2	6.7	+0.0012	0.027	0.9346	18 4.7	1.3100	23 21.8	0.1673_n	1.470
3	6.8	0.0039	0.039	0.9350	18 6.9	1.3098	23 18.0	0.2074_n	1.612
4	6.8	0.0067	0.051	0.9355	18 8.9	1.3095	23 14.3	0.2440_n	1.754
5	6.9	0.0094	0.063	0.9361	18 11.0	1.3093	23 10.5	0.2776_n	1.895
6	7.0	0.0121	+0.075	0.9368	18 13.1	1.3090	23 6.7	0.3086_n	−2.035
7	7.0	0.0149	0.087	0.9376	18 15.1	1.3086	23 2.9	0.3375_n	2.175
8	7.1	0.0176	0.099	0.9384	18 17.1	1.3083	22 59.2	0.3644_n	2.314
9	7.2	0.0204	0.111	0.9392	18 19.1	1.3080	22 55.4	0.3897_n	2.453
10	7.2	0.0231	0.123	0.9401	18 21.1	1.3076	22 51.6	0.4135_n	2.591
11	7.3	0.0258	0.134	0.9411	18 23.0	1.3072	22 47.8	0.4358_n	2.728
12	7.4	0.0286	+0.146	0.9421	18 25.0	1.3068	22 44.0	0.4570_n	−2.864
13	7.4	0.0313	0.158	0.9432	18 26.9	1.3064	22 40.1	0.4770_n	2.999
14	7.5	0.0340	0.169	0.9443	18 28.8	1.3060	22 36.3	0.4960_n	3.133
15	7.5	0.0368	0.180	0.9455	18 30.7	1.3055	22 32.5	0.5142_n	3.267
16	7.6	0.0395	0.192	0.9467	18 32.5	1.3051	22 28.6	0.5314_n	3.399
17	7.7	0.0423	0.203	0.9480	18 34.3	1.3046	22 24.8	0.5478_n	3.530
18	7.7	0.0450	+0.214	0.9492	18 36.1	1.3041	22 20.9	0.5634_n	−3.659
19	7.8	0.0477	0.225	0.9506	18 37.9	1.3036	22 17.1	0.5783_n	3.787
20	7.9	0.0505	0.236	0.9520	18 39.7	1.3030	22 13.2	0.5927_n	3.915
21	7.9	0.0532	0.247	0.9534	18 41.4	1.3025	22 9.3	0.6066_n	4.042
22	8.0	0.0560	0.258	0.9548	18 43.1	1.3019	22 5.4	0.6198_n	4.167
23	8.1	0.0587	0.269	0.9562	18 44.7	1.3014	22 1.5	0.6326_n	4.291
24	8.1	0.0614	+0.280	0.9577	18 46.4	1.3008	21 57.6	0.6447_n	−4.413
25	8.2	0.0642	0.290	0.9592	18 48.0	1.3002	21 53.7	0.6564_n	4.533
26	8.3	0.0669	0.301	0.9608	18 49.6	1.2996	21 49.8	0.6677_n	4.653
27	8.3	0.0696	0.311	0.9623	18 51.1	1.2990	21 45.8	0.6786_n	4.771
28	8.4	0.0724	0.321	0.9639	18 52.7	1.2984	21 41.9	0.6890_n	4.887
29	8.5	0.0751	0.332	0.9655	18 54.2	1.2978	21 37.9	0.6991_n	5.002
30	8.5	0.0779	+0.342	0.9671	18 55.6	1.2971	21 34.0	0.7089_n	−5.115
31	8.6	0.0806	0.352	0.9687	18 57.1	1.2965	21 30.0	0.7182_n	5.226
Febr. 1	8.7	0.0833	0.362	0.9703	18 58.5	1.2958	21 26.0	0.7273_n	5.337
2	8.7	0.0861	0.371	0.9719	18 59.9	1.2952	21 22.0	0.7360_n	5.445
3	8.8	0.0888	0.381	0.9735	19 1.3	1.2945	21 18.0	0.7444_n	5.551
4	8.9	0.0915	0.391	0.9752	19 2.7	1.2939	21 13.9	0.7525_n	5.656
5	8.9	0.0943	+0.400	0.9768	19 4.0	1.2932	21 9.9	0.7603_n	−5.758
6	9.0	0.0970	0.410	0.9784	19 5.3	1.2926	21 5.9	0.7679_n	5.860
7	9.1	0.0998	0.419	0.9801	19 6.6	1.2919	21 1.8	0.7752_n	5.959
8	9.1	0.1025	0.428	0.9817	19 7.8	1.2912	20 57.7	0.7822_n	6.056
9	9.2	0.1052	0.438	0.9833	19 9.0	1.2906	20 53.7	0.7890_n	6.151
10	9.3	0.1080	+0.447	0.9849	19 10.2	1.2899	20 49.6	0.7955_n	−6.245

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1932	in 0.″001	in 0.″01				in 0.″01	23° 27′		in 0.″01	in 0.001	
Jan. 0	+ 2	+11	18.h3	−0.″22	+0.″27	+ 3	1.″97	+8.″59	+11	37	89
1	− 5	11	16.8	−0.08	0.33	− 9	1.97	8.59	+11	37	89
2	−11	11	15.1	+0.06	0.39	−18	1.95	8.60	+ 8	38	89
3	−14	10	13.2	0.20	0.45	−23	1.91	8.61	+ 3	38	89
4	−14	9	11.0	0.34	0.51	−22	1.86	8.61	− 2	38	89
5	−10	10	8.7	0.47	0.57	−16	1.81	8.62	− 7	38	89
6	− 3	+11	6.8	+0.61	+0.62	− 5	1.79	+8.63	−10	38	89
7	+ 4	11	5.0	0.75	0.68	+ 7	1.79	8.64	−11	38	89
8	+11	12	3.5	0.89	0.74	+18	1.82	8.65	− 9	38	89
9	+16	12	1.9	1.02	0.79	+26	1.87	8.66	− 6	38	89
10	+17	11	0.4	1.16	0.85	+29	1.92	8.67	− 1	38	89
11	+16	11	22.7	1.30	0.90	+26	1.98	8.69	+ 4	38	88
12	+12	+11	21.2	+1.44	+0.95	+20	2.03	+8.70	+ 7	38	88
13	+ 7	10	19.6	1.57	1.00	+11	2.06	8.71	+10	38	88
14	0	10	18.0	1.71	1.05	0	2.08	8.73	+10	38	88
15	− 6	10	16.3	1.85	1.10	−10	2.08	8.74	+ 9	38	88
16	−12	10	14.6	1.99	1.15	−19	2.07	8.76	+ 6	39	88
17	−15	10	12.8	2.12	1.20	−24	2.04	8.77	+ 2	39	88
18	−16	+10	11.2	+2.26	+1.24	−26	2.01	+8.79	− 2	39	88
19	−14	11	9.7	2.40	1.29	−23	1.99	8.80	− 6	39	88
20	−10	11	8.4	2.54	1.33	−16	1.97	8.82	− 9	39	88
21	− 4	11	6.9	2.67	1.37	− 7	1.97	8.83	−11	39	87
22	+ 2	10	5.4	2.81	1.41	+ 4	1.99	8.85	−10	39	87
23	+ 8	9	3.4	2.95	1.45	+14	2.04	8.87	− 7	39	87
24	+12	+ 8	1.2	+3.09	+1.49	+19	2.10	+8.89	− 2	40	87
25	+12	9	22.7	3.23	1.52	+20	2.17	8.90	+ 3	40	87
26	+10	10	20.7	3.36	1.56	+16	2.24	8.92	+ 7	40	87
27	+ 4	11	19.0	3.50	1.59	+ 7	2.28	8.94	+10	40	87
28	− 2	11	17.5	3.64	1.62	− 4	2.31	8.96	+11	40	87
29	− 9	11	15.9	3.78	1.65	−14	2.30	8.98	+ 9	40	87
30	−13	+10	14.0	+3.91	+1.68	−21	2.28	+9.00	+ 5	40	86
31	−13	9	11.7	4.05	1.70	−22	2.24	9.02	− 1	41	86
Febr. 1	−11	9	9.3	4.19	1.73	−17	2.21	9.04	− 6	41	86
2	− 5	10	7.3	4.33	1.75	− 8	2.19	9.05	−10	41	86
3	+ 2	11	5.5	4.46	1.77	+ 4	2.19	9.07	−11	41	86
4	+ 9	12	4.0	4.60	1.79	+15	2.22	9.09	−10	41	86
5	+14	+12	2.5	+4.74	+1.81	+24	2.27	+9.11	− 7	41	86
6	+17	12	0.9	4.88	1.83	+28	2.33	9.13	− 3	41	86
7	+17	11	23.2	5.01	1.84	+27	2.40	9.15	+ 2	42	85
8	+13	11	21.6	5.15	1.86	+22	2.46	9.17	+ 6	42	85
9	+ 8	11	20.0	5.29	1.87	+13	2.50	9.19	+ 9	42	85
10	+ 2	+10	18.4	+5.43	+1.88	+ 3	2.53	+9.21	+10	42	85

Reduktionsgrößen 1932

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1932	h	a			h m		h m		"
Febr. 10	9.3	0.1080	+0.447	0.9849	19 10.2	1.2899	20 49.6	0.7955$_n$	−6.245
11	9.3	0.1107	0.456	0.9865	19 11.4	1.2892	20 45.5	0.8018$_n$	6.336
12	9.4	0.1134	0.464	0.9881	19 12.5	1.2886	20 41.4	0.8079$_n$	6.425
13	9.5	0.1162	0.473	0.9897	19 13.7	1.2879	20 37.2	0.8137$_n$	6.512
14	9.5	0.1189	0.482	0.9912	19 14.8	1.2873	20 33.1	0.8194$_n$	6.598
15	9.6	0.1217	0.490	0.9928	19 15.9	1.2867	20 29.0	0.8248$_n$	6.681
16	9.7	0.1244	+0.499	0.9943	19 17.0	1.2860	20 24.8	0.8301$_n$	−6.762
17	9.7	0.1271	0.507	0.9958	19 18.0	1.2854	20 20.6	0.8351$_n$	6.841
18	9.8	0.1299	0.515	0.9973	19 19.1	1.2848	20 16.5	0.8400$_n$	6.918
19	9.8	0.1326	0.524	0.9988	19 20.1	1.2842	20 12.3	0.8447$_n$	6.993
20	9.9	0.1354	0.532	1.0003	19 21.1	1.2836	20 8.1	0.8491$_n$	7.065
21	10.0	0.1381	0.540	1.0018	19 22.1	1.2830	20 3.9	0.8534$_n$	7.135
22	10.0	0.1408	+0.548	1.0032	19 23.1	1.2824	19 59.7	0.8575$_n$	−7.203
23	10.1	0.1436	0.556	1.0047	19 24.0	1.2818	19 55.4	0.8615$_n$	7.269
24	10.2	0.1463	0.563	1.0061	19 25.0	1.2813	19 51.2	0.8653$_n$	7.333
25	10.2	0.1490	0.571	1.0074	19 25.9	1.2808	19 47.0	0.8689$_n$	7.394
26	10.3	0.1518	0.579	1.0087	19 26.9	1.2802	19 42.7	0.8723$_n$	7.453
27	10.4	0.1545	0.586	1.0101	19 27.8	1.2797	19 38.5	0.8755$_n$	7.508
28	10.4	0.1573	+0.594	1.0114	19 28.7	1.2792	19 34.2	0.8787$_n$	−7.563
29	10.5	0.1600	0.601	1.0126	19 29.6	1.2788	19 29.9	0.8817$_n$	7.615
März 1	10.6	0.1627	0.609	1.0139	19 30.4	1.2783	19 25.6	0.8845$_n$	7.665
2	10.6	0.1655	0.616	1.0151	19 31.3	1.2779	19 21.4	0.8872$_n$	7.712
3	10.7	0.1682	0.623	1.0163	19 32.2	1.2775	19 17.1	0.8897$_n$	7.757
4	10.8	0.1709	0.630	1.0175	19 33.1	1.2771	19 12.8	0.8920$_n$	7.799
5	10.8	0.1737	+0.638	1.0186	19 33.9	1.2767	19 8.5	0.8943$_n$	−7.839
6	10.9	0.1764	0.645	1.0197	19 34.8	1.2763	19 4.2	0.8963$_n$	7.876
7	11.0	0.1792	0.652	1.0208	19 35.6	1.2760	18 59.9	0.8982$_n$	7.911
8	11.0	0.1819	0.659	1.0219	19 36.5	1.2757	18 55.5	0.9000$_n$	7.944
9	11.1	0.1846	0.666	1.0230	19 37.3	1.2754	18 51.2	0.9017$_n$	7.974
10	11.2	0.1874	0.673	1.0240	19 38.1	1.2751	18 46.9	0.9032$_n$	8.002
11	11.2	0.1901	+0.680	1.0250	19 38.9	1.2749	18 42.6	0.9046$_n$	−8.027
12	11.3	0.1928	0.686	1.0260	19 39.8	1.2746	18 38.2	0.9058$_n$	8.050
13	11.4	0.1956	0.693	1.0269	19 40.6	1.2744	18 33.9	0.9069$_n$	8.070
14	11.4	0.1983	0.700	1.0278	19 41.4	1.2743	18 29.6	0.9078$_n$	8.088
15	11.5	0.2011	0.707	1.0287	19 42.2	1.2741	18 25.2	0.9087$_n$	8.104
16	11.6	0.2038	0.714	1.0296	19 43.1	1.2740	18 20.9	0.9094$_n$	8.117
17	11.6	0.2065	+0.720	1.0305	19 43.9	1.2739	18 16.6	0.9100$_n$	−8.128
18	11.7	0.2093	0.727	1.0313	19 44.7	1.2738	18 12.2	0.9104$_n$	8.136
19	11.8	0.2120	0.734	1.0321	19 45.5	1.2737	18 7.9	0.9107$_n$	8.142
20	11.8	0.2148	0.741	1.0329	19 46.4	1.2737	18 3.6	0.9109$_n$	8.145
21	11.9	0.2175	0.747	1.0337	19 47.2	1.2737	17 59.2	0.9109$_n$	8.146
22	12.0	0.2202	+0.754	1.0345	19 48.1	1.2737	17 54.9	0.9108$_n$	−8.144

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'	j	k
1932	in 0.s001	in 0.″01				in 0.″01	23° 27'		in 0.″01	in 0.001	
Febr. 10	+ 2	+10	18.h4	+ 5.″43	+1.″88	+ 3	″2.53	+9.″21	+10	42	85
11	− 5	10	16.8	5.56	1.89	− 8	2.54	9.23	+ 9	42	85
12	−10	10	15.1	5.70	1.90	−17	2.53	9.25	+ 7	42	85
13	−14	10	13.3	5.84	1.90	−23	2.51	9.26	+ 3	43	85
14	−16	11	11.7	5.98	1.91	−26	2.49	9.28	− 1	43	84
15	−15	11	10.2	6.12	1.91	−25	2.46	9.30	− 5	43	84
16	−12	+11	8.9	+ 6.25	+1.91	−20	2.45	+9.32	− 8	43	84
17	− 7	11	7.5	6.39	1.91	−11	2.44	9.34	−10	43	84
18	0	10	6.1	6.53	1.91	− 1	2.46	9.35	−10	43	84
19	+ 6	9	4.3	6.67	1.90	+ 9	2.50	9.37	− 8	43	84
20	+10	8	2.0	6.80	1.90	+17	2.55	9.39	− 4	44	84
21	+12	8	23.4	6.94	1.89	+19	2.62	9.40	+ 1	44	84
22	+10	+ 9	21.2	+ 7.08	+1.88	+17	2.68	+9.42	+ 6	44	84
23	+ 6	10	19.4	7.22	1.88	+10	2.73	9.43	+10	44	83
24	0	11	18.0	7.35	1.87	0	2.76	9.45	+11	44	83
25	− 6	11	16.5	7.49	1.85	−10	2.77	9.47	+10	44	83
26	−11	10	14.7	7.63	1.84	−18	2.74	9.48	+ 6	44	83
27	−13	9	12.5	7.77	1.83	−21	2.70	9.49	+ 1	45	83
28	−11	+ 8	9.9	+ 7.90	+1.81	−18	2.66	+9.51	− 4	45	83
29	− 6	10	7.6	8.04	1.80	−10	2.63	9.52	− 9	45	83
März 1	+ 1	11	5.9	8.18	1.78	+ 1	2.61	9.53	−11	45	83
2	+ 8	12	4.3	8.32	1.76	+13	2.63	9.54	−11	45	83
3	+14	12	2.9	8.45	1.74	+23	2.66	9.55	− 8	45	83
4	+17	12	1.3	8.59	1.72	+28	2.71	9.56	− 4	45	83
5	+18	+12	23.8	+ 8.73	+1.70	+29	2.77	+9.57	+ 1	45	82
6	+15	11	22.1	8.87	1.68	+25	2.82	9.58	+ 5	46	82
7	+10	11	20.5	9.01	1.66	+17	2.86	9.59	+ 9	46	82
8	+ 4	10	18.9	9.14	1.63	+ 6	2.89	9.60	+10	46	82
9	− 3	10	17.3	9.28	1.61	− 4	2.89	9.61	+10	46	82
10	− 9	10	15.6	9.42	1.59	−14	2.87	9.61	+ 8	46	82
11	−13	+10	13.8	+ 9.56	+1.56	−22	2.85	+9.62	+ 4	46	82
12	−16	10	12.1	9.69	1.54	−26	2.81	9.63	0	46	82
13	−16	11	10.6	9.83	1.51	−26	2.77	9.63	− 4	46	82
14	−13	11	9.3	9.97	1.48	−22	2.74	9.63	− 7	46	82
15	− 9	11	8.0	10.11	1.46	−14	2.71	9.64	−10	47	82
16	− 3	11	6.6	10.24	1.43	− 5	2.71	9.64	−10	47	82
17	+ 3	+ 9	5.1	+10.38	+1.40	+ 5	2.73	+9.64	− 9	47	82
18	+ 8	7	3.1	10.52	1.37	+13	2.76	9.65	− 5	47	82
19	+11	7	0.2	10.66	1.35	+17	2.81	9.65	0	47	82
20	+10	8	21.6	10.79	1.32	+16	2.86	9.65	+ 5	47	82
21	+ 7	10	19.7	10.93	1.29	+11	2.90	9.65	+ 9	47	82
22	+ 1	+11	18.2	+11.07	+1.26	+ 2	2.92	+9.65	+11	47	82

Reduktionsgrößen 1932

Tag	0ʰ Welt-Zeit								
	St.-Zt. Grw.	t	f	$\log g$	G	$\log h$	H	$\log i$	i
1932									
März 22	12.0ʰ	0.2202ˢ	+0.754ˢ	1.0345	19ʰ 48.1ᵐ	1.2737	17ʰ 54.9ᵐ	0.9108$_n$	−8.144″
23	12.0	0.2230	0.761	1.0352	19 48.9	1.2737	17 50.6	0.9106$_n$	8.140
24	12.1	0.2257	0.767	1.0359	19 49.7	1.2738	17 46.3	0.9103$_n$	8.134
25	12.1	0.2284	0.774	1.0366	19 50.6	1.2739	17 42.0	0.9098$_n$	8.124
26	12.2	0.2312	0.781	1.0373	19 51.4	1.2740	17 37.6	0.9091$_n$	8.112
27	12.3	0.2339	0.788	1.0380	19 52.3	1.2742	17 33.3	0.9084$_n$	8.098
28	12.3	0.2367	+0.794	1.0387	19 53.1	1.2743	17 29.0	0.9076$_n$	−8.083
29	12.4	0.2394	0.801	1.0394	19 54.0	1.2745	17 24.7	0.9066$_n$	8.064
30	12.5	0.2421	0.808	1.0400	19 54.9	1.2747	17 20.4	0.9054$_n$	8.043
31	12.5	0.2449	0.815	1.0406	19 55.8	1.2749	17 16.2	0.9042$_n$	8.020
April 1	12.6	0.2476	0.822	1.0412	19 56.7	1.2752	17 11.9	0.9028$_n$	7.994
2	12.7	0.2503	0.829	1.0417	19 57.6	1.2755	17 7.6	0.9012$_n$	7.966
3	12.7	0.2531	+0.836	1.0423	19 58.5	1.2758	17 3.4	0.8996$_n$	−7.935
4	12.8	0.2558	0.843	1.0429	19 59.4	1.2761	16 59.1	0.8978$_n$	7.903
5	12.9	0.2586	0.850	1.0435	20 0.3	1.2764	16 54.9	0.8959$_n$	7.868
6	12.9	0.2613	0.857	1.0440	20 1.3	1.2768	16 50.6	0.8938$_n$	7.830
7	13.0	0.2640	0.864	1.0446	20 2.2	1.2771	16 46.4	0.8915$_n$	7.790
8	13.1	0.2668	0.871	1.0451	20 3.2	1.2775	16 42.2	0.8892$_n$	7.748
9	13.2	0.2695	+0.878	1.0457	20 4.2	1.2779	16 38.0	0.8867$_n$	−7.704
10	13.2	0.2722	0.886	1.0463	20 5.1	1.2784	16 33.8	0.8841$_n$	7.658
11	13.3	0.2750	0.893	1.0468	20 6.1	1.2788	16 29.6	0.8813$_n$	7.609
12	13.3	0.2777	0.900	1.0474	20 7.1	1.2793	16 25.4	0.8784$_n$	7.558
13	13.4	0.2805	0.908	1.0479	20 8.1	1.2798	16 21.3	0.8754$_n$	7.505
14	13.5	0.2832	0.915	1.0484	20 9.1	1.2803	16 17.1	0.8722$_n$	7.450
15	13.5	0.2859	+0.923	1.0490	20 10.1	1.2808	16 13.0	0.8688$_n$	−7.393
16	13.6	0.2887	0.931	1.0495	20 11.2	1.2813	16 8.9	0.8653$_n$	7.334
17	13.7	0.2914	0.938	1.0500	20 12.2	1.2818	16 4.8	0.8617$_n$	7.273
18	13.7	0.2942	0.946	1.0506	20 13.3	1.2824	16 0.7	0.8579$_n$	7.209
19	13.8	0.2969	0.954	1.0512	20 14.3	1.2829	15 56.6	0.8539$_n$	7.143
20	13.9	0.2996	0.962	1.0518	20 15.4	1.2835	15 52.5	0.8497$_n$	7.075
21	13.9	0.3024	+0.970	1.0524	20 16.4	1.2841	15 48.4	0.8454$_n$	−7.005
22	14.0	0.3051	0.978	1.0530	20 17.5	1.2847	15 44.4	0.8410$_n$	6.934
23	14.1	0.3078	0.987	1.0536	20 18.6	1.2853	15 40.4	0.8363$_n$	6.860
24	14.1	0.3106	0.995	1.0542	20 19.7	1.2859	15 36.4	0.8315$_n$	6.784
25	14.2	0.3133	1.003	1.0549	20 20.8	1.2865	15 32.4	0.8265$_n$	6.707
26	14.3	0.3161	1.012	1.0555	20 21.9	1.2871	15 28.4	0.8214$_n$	6.628
27	14.3	0.3188	+1.020	1.0562	20 23.1	1.2877	15 24.4	0.8160$_n$	−6.546
28	14.4	0.3215	1.029	1.0569	20 24.2	1.2883	15 20.4	0.8104$_n$	6.462
29	14.4	0.3243	1.037	1.0576	20 25.3	1.2889	15 16.4	0.8046$_n$	6.377
30	14.5	0.3270	1.046	1.0583	20 26.5	1.2896	15 12.5	0.7987$_n$	6.291
Mai 1	14.6	0.3297	1.055	1.0590	20 27.6	1.2902	15 8.6	0.7926$_n$	6.203
2	14.6	0.3325	+1.064	1.0598	20 28.8	1.2908	15 4.7	0.7862$_n$	−6.112

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1932	in 0ˢ.001	in 0ˢ.01				in 0″.01	23° 27′		in 0″.01	in 0.001	
März 22	+ 1	+11	18ʰ.2	+11″.07	+1″.26	+ 2	2″.92	+9″.65	+11	47	82
23	− 5	11	16.8	11.21	1.23	− 9	2.91	9.64	+11	47	82
24	−11	10	15.2	11.34	1.21	−17	2.88	9.64	+ 8	47	82
25	−13	9	13.3	11.48	1.18	−21	2.83	9.64	+ 3	47	82
26	−12	8	10.8	11.62	1.15	−20	2.77	9.63	− 2	48	82
27	− 8	9	8.3	11.76	1.12	−13	2.72	9.63	− 7	48	82
28	− 1	+10	6.3	+11.90	+1.10	− 2	2.68	+9.63	−10	48	82
29	+ 6	12	4.6	12.03	1.07	+10	2.67	9.62	−11	48	82
30	+13	13	3.1	12.17	1.05	+21	2.68	9.61	− 9	48	82
31	+17	13	1.7	12.31	1.02	+29	2.71	9.61	− 5	48	82
April 1	+19	12	0.2	12.45	0.99	+31	2.75	9.60	− 1	48	82
2	+17	12	22.6	12.58	0.97	+28	2.79	9.59	+ 4	48	82
3	+13	+11	21.1	+12.72	+0.95	+21	2.81	+9.58	+ 8	48	82
4	+ 6	11	19.6	12.86	0.92	+11	2.82	9.57	+10	48	82
5	0	10	18.0	13.00	0.90	0	2.81	9.56	+10	48	82
6	− 6	9	16.2	13.13	0.88	−11	2.78	9.55	+ 8	48	82
7	−11	9	14.4	13.27	0.86	−19	2.74	9.54	+ 6	48	83
8	−15	10	12.6	13.41	0.84	−24	2.69	9.53	+ 2	48	83
9	−15	+10	11.0	+13.55	+0.82	−25	2.64	+9.52	− 3	48	83
10	−14	11	9.6	13.68	0.80	−23	2.58	9.51	− 6	49	83
11	−10	11	8.3	13.82	0.78	−16	2.54	9.49	− 9	49	83
12	− 5	11	7.1	13.96	0.77	− 7	2.51	9.48	−10	49	83
13	+ 1	10	5.6	14.10	0.75	+ 2	2.51	9.47	−10	49	83
14	+ 6	8	3.9	14.23	0.74	+10	2.52	9.45	− 7	49	83
15	+ 9	+ 7	1.3	+14.37	+0.72	+15	2.55	+9.44	− 2	49	83
16	+10	7	22.3	14.51	0.71	+16	2.59	9.42	+ 3	49	83
17	+ 7	9	20.0	14.65	0.70	+11	2.61	9.41	+ 8	49	83
18	+ 2	11	18.4	14.79	0.69	+ 3	2.63	9.39	+11	49	84
19	− 5	11	17.0	14.92	0.68	− 7	2.62	9.37	+11	49	84
20	−10	11	15.5	15.06	0.67	−17	2.58	9.36	+ 9	49	84
21	−14	+10	13.9	+15.20	+0.67	−22	2.52	+9.34	+ 5	49	84
22	−14	9	11.7	15.34	0.66	−23	2.44	9.32	− 1	49	84
23	−10	9	9.3	15.47	0.66	−17	2.37	9.31	− 6	49	84
24	− 4	10	7.0	15.61	0.65	− 6	2.32	9.29	−10	49	84
25	+ 4	11	5.1	15.75	0.65	+ 6	2.28	9.27	−11	49	84
26	+11	13	3.6	15.89	0.65	+19	2.27	9.25	−10	50	84
27	+17	+13	2.1	+16.02	+0.66	+27	2.29	+9.23	− 7	50	85
28	+19	13	0.7	16.16	0.66	+32	2.31	9.22	− 2	50	85
29	+19	12	23.2	16.30	0.66	+31	2.34	9.20	+ 3	50	85
30	+15	12	21.7	16.44	0.67	+25	2.36	9.18	+ 7	50	85
Mai 1	+ 9	11	20.2	16.57	0.68	+15	2.37	9.16	+ 9	50	85
2	+ 2	+10	18.6	+16.71	+0.68	+ 4	2.36	+9.14	+10	50	85

Reduktionsgrößen 1932

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1932									
Mai 2	h 14.6	s 0.3325	s +1.064	1.0598	h m 20 28.8	1.2908	h m 15 4.7	0.7862_n	s −6.112
3	14.7	0.3352	1.073	1.0606	20 29.9	1.2915	15 0.8	0.7796_n	6.020
4	14.8	0.3380	1.082	1.0614	20 31.1	1.2921	14 56.9	0.7728_n	5.927
5	14.8	0.3407	1.091	1.0622	20 32.3	1.2927	14 53.0	0.7657_n	5.831
6	14.9	0.3434	1.100	1.0630	20 33.5	1.2934	14 49.1	0.7585_n	5.734
7	15.0	0.3462	1.110	1.0639	20 34.6	1.2940	14 45.3	0.7510_n	5.636
8	15.0	0.3489	+1.119	1.0648	20 35.8	1.2946	14 41.5	0.7432_n	−5.536
9	15.1	0.3516	1.129	1.0657	20 37.0	1.2952	14 37.6	0.7351_n	5.434
10	15.2	0.3544	1.138	1.0666	20 38.2	1.2959	14 33.8	0.7268_n	5.331
11	15.2	0.3571	1.148	1.0676	20 39.4	1.2965	14 30.0	0.7182_n	5.226
12	15.3	0.3599	1.158	1.0686	20 40.6	1.2971	14 26.2	0.7093_n	5.120
13	15.4	0.3626	1.168	1.0696	20 41.8	1.2977	14 22.5	0.7001_n	5.013
14	15.4	0.3653	+1.178	1.0706	20 43.0	1.2983	14 18.7	0.6906_n	−4.905
15	15.5	0.3681	1.188	1.0717	20 44.2	1.2989	14 15.0	0.6808_n	4.795
16	15.6	0.3708	1.198	1.0728	20 45.4	1.2994	14 11.2	0.6705_n	4.683
17	15.6	0.3735	1.208	1.0739	20 46.6	1.3000	14 7.5	0.6599_n	4.570
18	15.7	0.3763	1.218	1.0750	20 47.8	1.3006	14 3.8	0.6490_n	4.456
19	15.8	0.3790	1.229	1.0762	20 48.9	1.3011	14 0.1	0.6376_n	4.341
20	15.8	0.3818	+1.239	1.0774	20 50.1	1.3017	13 56.4	0.6258_n	−4.225
21	15.9	0.3845	1.250	1.0786	20 51.3	1.3022	13 52.7	0.6135_n	4.107
22	16.0	0.3872	1.260	1.0799	20 52.5	1.3027	13 49.0	0.6008_n	3.988
23	16.0	0.3900	1.271	1.0812	20 53.7	1.3032	13 45.4	0.5876_n	3.869
24	16.1	0.3927	1.281	1.0825	20 54.8	1.3037	13 41.7	0.5738_n	3.748
25	16.2	0.3955	1.292	1.0839	20 56.0	1.3042	13 38.1	0.5594_n	3.626
26	16.2	0.3982	+1.303	1.0853	20 57.1	1.3047	13 34.4	0.5444_n	−3.503
27	16.3	0.4009	1.314	1.0866	20 58.3	1.3051	13 30.8	0.5289_n	3.380
28	16.4	0.4037	1.325	1.0880	20 59.4	1.3056	13 27.2	0.5126_n	3.255
29	16.4	0.4064	1.336	1.0895	21 0.6	1.3060	13 23.6	0.4955_n	3.130
30	16.5	0.4091	1.347	1.0910	21 1.7	1.3064	13 20.0	0.4777_n	3.004
31	16.6	0.4119	1.358	1.0925	21 2.8	1.3068	13 16.4	0.4589_n	2.877
Juni 1	16.6	0.4146	+1.369	1.0940	21 3.9	1.3072	13 12.8	0.4392_n	−2.749
2	16.7	0.4174	1.380	1.0955	21 5.0	1.3075	13 9.2	0.4183_n	2.620
3	16.7	0.4201	1.392	1.0971	21 6.1	1.3079	13 5.7	0.3964_n	2.491
4	16.8	0.4228	1.403	1.0987	21 7.2	1.3082	13 2.1	0.3731_n	2.361
5	16.8	0.4256	1.414	1.1003	21 8.2	1.3085	12 58.6	0.3485_n	2.231
6	16.9	0.4283	1.426	1.1020	21 9.3	1.3088	12 55.0	0.3220_n	2.099
7	17.0	0.4310	+1.437	1.1036	21 10.3	1.3091	12 51.5	0.2938_n	−1.967
8	17.1	0.4338	1.449	1.1053	21 11.4	1.3094	12 47.9	0.2636_n	1.835
9	17.1	0.4365	1.460	1.1070	21 12.4	1.3096	12 44.4	0.2312_n	1.703
10	17.2	0.4393	1.472	1.1087	21 13.4	1.3098	12 40.9	0.1959_n	1.570
11	17.3	0.4420	1.483	1.1104	21 14.4	1.3100	12 37.3	0.1572_n	1.436
12	17.3	0.4447	+1.495	1.1122	21 15.4	1.3102	12 33.8	0.1146_n	−1.302

Tag	0ʰ Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'	j	k
1932	in 0ˢ.001	in 0".01				in 0".01	23° 27'		in 0".01	in 0.001	
Mai 2	+ 2	+10	18ʰ.6	+16".71	+0".68	+ 4	2".36	+9".14	+10	50	85
3	− 4	10	16.9	16.85	0.69	− 6	2.33	9.12	+ 9	50	85
4	−10	9	15.1	16.99	0.71	−16	2.28	9.10	+ 7	50	85
5	−13	9	13.2	17.12	0.72	−22	2.22	9.08	+ 3	50	85
6	−15	10	11.4	17.26	0.73	−24	2.16	9.06	− 1	50	86
7	−14	10	9.9	17.40	0.75	−22	2.10	9.05	− 5	51	86
8	−11	+11	8.6	+17.54	+0.76	−17	2.05	+9.03	− 9	51	86
9	− 6	11	7.3	17.68	0.78	− 9	2.01	9.01	−10	51	86
10	0	10	6.0	17.81	0.80	0	1.99	8.99	−10	51	86
11	+ 5	8	4.4	17.95	0.82	+ 9	1.99	8.97	− 8	51	86
12	+ 9	7	2.1	18.09	0.85	+15	2.01	8.95	− 4	51	86
13	+10	7	23.1	18.23	0.87	+17	2.05	8.93	+ 1	51	87
14	+ 8	+ 8	20.6	+18.36	+0.89	+13	2.07	+8.91	+ 6	51	87
15	+ 3	10	18.8	18.50	0.92	+ 5	2.09	8.90	+10	51	87
16	− 3	11	17.3	18.64	0.95	− 5	2.09	8.88	+11	52	87
17	− 9	12	15.9	18.78	0.98	−16	2.05	8.86	+10	52	87
18	−14	11	14.3	18.91	1.01	−23	2.00	8.84	+ 6	52	87
19	−15	10	12.4	19.05	1.04	−25	1.93	8.82	+ 1	52	87
20	−13	+10	10.2	+19.19	+1.07	−21	1.85	+8.81	− 4	52	87
21	− 7	10	8.0	19.33	1.11	−12	1.79	8.79	− 9	52	87
22	0	11	5.9	19.46	1.14	0	1.75	8.77	−11	52	88
23	+ 8	12	4.2	19.60	1.18	+13	1.74	8.76	−11	53	88
24	+15	13	2.6	19.74	1.21	+24	1.75	8.74	− 8	53	88
25	+19	13	1.1	19.88	1.25	+31	1.77	8.73	− 4	53	88
26	+19	+13	23.6	+20.01	+1.29	+32	1.81	+8.71	+ 1	53	88
27	+17	12	22.2	20.15	1.33	+27	1.84	8.70	+ 6	53	88
28	+12	12	20.7	20.29	1.37	+19	1.85	8.68	+ 9	53	88
29	+ 5	11	19.2	20.43	1.42	+ 8	1.85	8.67	+10	54	88
30	− 2	10	17.6	20.56	1.46	− 3	1.83	8.65	+10	54	88
31	− 8	9	15.8	20.70	1.50	−12	1.79	8.64	+ 7	54	88
Juni 1	−12	+ 9	13.8	+20.84	+1.55	−19	1.74	+8.63	+ 4	54	88
2	−14	9	12.0	20.98	1.60	−23	1.69	8.62	0	54	89
3	−14	10	10.3	21.12	1.64	−22	1.63	8.60	− 4	55	89
4	−11	11	8.8	21.25	1.69	−18	1.59	8.59	− 8	55	89
5	− 6	11	7.6	21.39	1.74	−11	1.55	8.58	−10	55	89
6	− 1	10	6.2	21.53	1.79	− 1	1.54	8.57	−10	55	89
7	+ 5	+ 9	4.7	+21.67	+1.84	+ 8	1.55	+8.56	− 8	55	89
8	+ 9	8	2.7	21.80	1.89	+15	1.57	8.55	− 5	56	89
9	+11	7	0.2	21.94	1.94	+18	1.61	8.54	0	56	89
10	+10	8	21.5	22.08	1.99	+16	1.65	8.54	+ 5	56	89
11	+ 5	9	19.5	22.22	2.04	+ 9	1.68	8.53	+ 9	56	89
12	− 1	+11	17.8	+22.35	+2.09	− 1	1.69	+8.52	+11	56	89

Reduktionsgrößen 1932

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1932	h				h m		h m		
Juni 12	17.3	0.4447	+1.495	1.1122	21 15.4	1.3102	12 33.8	0.1146$_n$	−1.302
13	17.4	0.4475	1.507	1.1139	21 16.3	1.3104	12 30.3	0.0674$_n$	1.168
14	17.5	0.4502	1.518	1.1157	21 17.3	1.3106	12 26.8	0.0141$_n$	1.033
15	17.5	0.4529	1.530	1.1175	21 18.2	1.3107	12 23.3	9.9533$_n$	0.898
16	17.6	0.4557	1.542	1.1194	21 19.2	1.3108	12 19.8	9.8825$_n$	0.763
17	17.7	0.4584	1.553	1.1212	21 20.1	1.3109	12 16.2	9.7980$_n$	0.628
18	17.7	0.4612	+1.565	1.1231	21 21.0	1.3110	12 12.7	9.6929$_n$	−0.493
19	17.8	0.4639	1.577	1.1249	21 21.8	1.3111	12 9.2	9.5539$_n$	0.358
20	17.9	0.4666	1.588	1.1268	21 22.7	1.3111	12 5.7	9.3464$_n$	0.222
21	17.9	0.4694	1.600	1.1287	21 23.6	1.3111	12 2.2	8.9345$_n$	−0.086
22	18.0	0.4721	1.612	1.1305	21 24.4	1.3111	11 58.7	8.6902	+0.049
23	18.1	0.4749	1.624	1.1325	21 25.2	1.3111	11 55.2	9.2672	0.185
24	18.1	0.4776	+1.635	1.1344	21 26.0	1.3111	11 51.7	9.5065	+0.321
25	18.2	0.4803	1.647	1.1363	21 26.8	1.3110	11 48.2	9.6590	0.456
26	18.3	0.4831	1.659	1.1382	21 27.6	1.3109	11 44.7	9.7716	0.591
27	18.3	0.4858	1.671	1.1401	21 28.4	1.3108	11 41.2	9.8609	0.726
28	18.4	0.4885	1.682	1.1420	21 29.1	1.3107	11 37.7	9.9350	0.861
29	18.5	0.4913	1.694	1.1440	21 29.8	1.3106	11 34.2	9.9983	0.996
30	18.5	0.4940	+1.706	1.1459	21 30.6	1.3105	11 30.7	0.0531	+1.130
Juli 1	18.6	0.4968	1.717	1.1479	21 31.3	1.3103	11 27.2	0.1018	1.264
2	18.7	0.4995	1.729	1.1498	21 31.9	1.3101	11 23.7	0.1455	1.398
3	18.7	0.5022	1.740	1.1517	21 32.6	1.3099	11 20.2	0.1850	1.531
4	18.8	0.5050	1.752	1.1537	21 33.3	1.3097	11 16.6	0.2212	1.664
5	18.9	0.5077	1.763	1.1556	21 33.9	1.3094	11 13.1	0.2546	1.797
6	18.9	0.5104	+1.775	1.1576	21 34.5	1.3092	11 9.6	0.2853	+1.929
7	19.0	0.5132	1.786	1.1595	21 35.2	1.3089	11 6.1	0.3139	2.060
8	19.0	0.5159	1.798	1.1615	21 35.8	1.3086	11 2.5	0.3406	2.191
9	19.1	0.5187	1.809	1.1634	21 36.3	1.3083	10 59.0	0.3659	2.322
10	19.2	0.5214	1.820	1.1653	21 36.9	1.3080	10 55.4	0.3893	2.451
11	19.2	0.5241	1.831	1.1672	21 37.5	1.3077	10 51.9	0.4116	2.580
12	19.3	0.5269	+1.843	1.1691	21 38.0	1.3073	10 48.3	0.4327	+2.708
13	19.4	0.5296	1.854	1.1711	21 38.5	1.3069	10 44.8	0.4526	2.835
14	19.4	0.5323	1.865	1.1729	21 39.0	1.3065	10 41.2	0.4716	2.962
15	19.5	0.5351	1.876	1.1748	21 39.5	1.3061	10 37.6	0.4897	3.088
16	19.6	0.5378	1.887	1.1767	21 40.0	1.3057	10 34.0	0.5069	3.213
17	19.6	0.5406	1.898	1.1786	21 40.5	1.3053	10 30.4	0.5234	3.337
18	19.7	0.5433	+1.909	1.1804	21 41.0	1.3048	10 26.8	0.5392	+3.461
19	19.8	0.5460	1.919	1.1823	21 41.4	1.3044	10 23.2	0.5543	3.583
20	19.8	0.5488	1.930	1.1842	21 41.9	1.3039	10 19.6	0.5687	3.704
21	19.9	0.5515	1.941	1.1860	21 42.3	1.3034	10 16.0	0.5825	3.824
22	20.0	0.5543	1.952	1.1878	21 42.7	1.3029	10 12.3	0.5959	3.944
23	20.0	0.5570	+1.962	1.1896	21 43.1	1.3024	10 8.7	0.6087	+4.062

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'	j	k
1932	in 0.001 s	in 0.01 s				in 0.01 "	23° 27'		in 0.01 "	in 0.001	
Juni 12	− 1	+11	17.8 h	+22.35 "	+2.09 "	− 1	1.69 "	+8.52 "	+11	56	89
13	− 7	11	16.4	22.49	2.15	−12	1.68	8.51	+11	57	89
14	−13	12	14.8	22.63	2.20	−22	1.65	8.51	+ 8	57	89
15	−16	11	13.1	22.77	2.25	−26	1.59	8.50	+ 3	57	89
16	−15	10	11.0	22.90	2.31	−25	1.53	8.50	− 3	57	89
17	−11	10	8.9	23.04	2.36	−17	1.47	8.49	− 7	58	89
18	− 4	+11	6.8	+23.18	+2.42	− 6	1.44	+8.49	−10	58	89
19	+ 5	11	5.0	23.32	2.47	+ 8	1.43	8.49	−11	58	89
20	+12	12	3.3	23.45	2.52	+20	1.45	8.49	− 9	58	89
21	+17	12	1.7	23.59	2.58	+28	1.48	8.48	− 5	59	89
22	+19	12	0.1	23.73	2.63	+31	1.53	8.48	0	59	89
23	+17	12	22.5	23.87	2.69	+28	1.57	8.48	+ 4	59	89
24	+13	+12	21.1	+24.01	+2.74	+21	1.61	+8.48	+ 8	59	89
25	+ 7	11	19.6	24.14	2.80	+12	1.63	8.48	+10	60	89
26	0	10	18.1	24.28	2.85	+ 1	1.63	8.48	+10	60	89
27	− 6	9	16.4	24.42	2.91	− 9	1.61	8.48	+ 8	60	89
28	−11	9	14.5	24.56	2.96	−17	1.58	8.49	+ 5	60	89
29	−13	9	12.5	24.69	3.01	−22	1.54	8.49	+ 1	61	89
30	−14	+ 9	10.7	+24.83	+3.07	−23	1.50	+8.49	− 3	61	89
Juli 1	−12	10	9.3	24.97	3.12	−19	1.47	8.50	− 7	61	89
2	− 8	11	7.9	25.11	3.17	−13	1.44	8.50	− 9	61	89
3	− 2	10	6.5	25.24	3.22	− 4	1.44	8.51	−10	62	89
4	+ 4	10	5.1	25.38	3.27	+ 6	1.45	8.51	− 9	62	89
5	+ 8	8	3.3	25.52	3.32	+14	1.48	8.52	− 6	62	89
6	+11	+ 7	1.0	+25.66	+3.37	+18	1.53	+8.52	− 2	63	89
7	+11	8	22.4	25.79	3.42	+18	1.59	8.53	+ 3	63	89
8	+ 8	9	20.3	25.93	3.47	+13	1.64	8.54	+ 8	63	89
9	+ 2	11	18.5	26.07	3.52	+ 3	1.68	8.54	+11	63	89
10	− 5	11	17.0	26.21	3.57	− 8	1.69	8.55	+11	64	89
11	−11	11	15.4	26.34	3.61	−18	1.67	8.56	+ 9	64	89
12	−15	+11	13.7	+26.48	+3.66	−25	1.64	+8.57	+ 5	64	88
13	−16	10	11.7	26.62	3.70	−26	1.60	8.58	− 1	65	88
14	−13	10	9.6	26.76	3.75	−21	1.55	8.59	− 6	65	88
15	− 6	11	7.6	26.90	3.79	−11	1.52	8.60	−10	65	88
16	+ 1	11	5.7	27.03	3.83	+ 2	1.52	8.61	−11	65	88
17	+ 9	12	3.9	27.17	3.87	+15	1.54	8.63	−10	66	88
18	+15	+12	2.3	+27.31	+3.91	+24	1.59	+8.64	− 7	66	88
19	+18	12	0.6	27.45	3.95	+29	1.64	8.65	− 2	66	88
20	+18	12	23.0	27.58	3.99	+29	1.71	8.66	+ 3	67	88
21	+14	12	21.5	27.72	4.03	+23	1.76	8.68	+ 7	67	88
22	+ 8	11	19.9	27.86	4.06	+14	1.80	8.69	+10	67	88
23	+ 2	+10	18.5	+28.00	+4.10	+ 3	1.81	+8.70	+10	67	87

Reduktionsgrößen 1932

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1932	h		s		h m		h m		″
Juli 23	20.0	0.5570	+1.962	1.1896	21 43.1	1.3024	10 8.7	0.6087	+4.062
24	20.1	0.5597	1.973	1.1914	21 43.5	1.3019	10 5.0	0.6212	4.180
25	20.2	0.5625	1.983	1.1932	21 43.9	1.3013	10 1.4	0.6330	4.295
26	20.2	0.5652	1.993	1.1950	21 44.3	1.3008	9 57.7	0.6444	4.410
27	20.3	0.5679	2.003	1.1967	21 44.6	1.3002	9 54.0	0.6554	4.523
28	20.4	0.5707	2.014	1.1985	21 45.0	1.2997	9 50.3	0.6661	4.636
29	20.4	0.5734	+2.024	1.2002	21 45.3	1.2991	9 46.6	0.6764	+4.747
30	20.5	0.5762	2.034	1.2019	21 45.7	1.2985	9 42.9	0.6864	4.857
31	20.6	0.5789	2.044	1.2036	21 46.0	1.2979	9 39.2	0.6959	4.965
Aug. 1	20.6	0.5816	2.054	1.2053	21 46.3	1.2974	9 35.5	0.7052	5.072
2	20.7	0.5844	2.063	1.2070	21 46.6	1.2968	9 31.7	0.7142	5.178
3	20.8	0.5871	2.073	1.2087	21 46.9	1.2962	9 28.0	0.7228	5.282
4	20.8	0.5898	+2.083	1.2103	21 47.2	1.2955	9 24.2	0.7312	+5.385
5	20.9	0.5926	2.092	1.2119	21 47.5	1.2949	9 20.4	0.7393	5.486
6	21.0	0.5953	2.102	1.2136	21 47.8	1.2943	9 16.6	0.7471	5.586
7	21.0	0.5981	2.111	1.2152	21 48.1	1.2937	9 12.8	0.7547	5.685
8	21.1	0.6008	2.120	1.2168	21 48.3	1.2931	9 9.0	0.7621	5.782
9	21.2	0.6035	2.129	1.2183	21 48.6	1.2924	9 5.2	0.7692	5.877
10	21.2	0.6063	+2.138	1.2198	21 48.8	1.2918	9 1.3	0.7761	+5.971
11	21.3	0.6090	2.147	1.2213	21 49.1	1.2912	8 57.5	0.7827	6.063
12	21.3	0.6117	2.156	1.2228	21 49.3	1.2906	8 53.6	0.7891	6.153
13	21.4	0.6145	2.165	1.2243	21 49.6	1.2899	8 49.7	0.7953	6.241
14	21.5	0.6172	2.174	1.2258	21 49.8	1.2893	8 45.8	0.8013	6.328
15	21.5	0.6200	2.183	1.2272	21 50.0	1.2887	8 41.9	0.8071	6.414
16	21.6	0.6227	+2.191	1.2287	21 50.3	1.2881	8 38.0	0.8127	+6.497
17	21.7	0.6254	2.200	1.2301	21 50.5	1.2874	8 34.1	0.8181	6.578
18	21.7	0.6282	2.208	1.2315	21 50.7	1.2868	8 30.1	0.8233	6.658
19	21.8	0.6309	2.217	1.2329	21 50.9	1.2862	8 26.2	0.8284	6.736
20	21.9	0.6337	2.225	1.2342	21 51.1	1.2856	8 22.2	0.8333	6.812
21	21.9	0.6364	2.233	1.2356	21 51.4	1.2850	8 18.2	0.8380	6.886
22	22.0	0.6391	+2.241	1.2369	21 51.6	1.2845	8 14.2	0.8425	+6.958
23	22.1	0.6419	2.249	1.2382	21 51.8	1.2839	8 10.2	0.8468	7.028
24	22.1	0.6446	2.257	1.2395	21 52.0	1.2833	8 6.2	0.8511	7.097
25	22.2	0.6473	2.265	1.2408	21 52.2	1.2828	8 2.2	0.8551	7.163
26	22.3	0.6501	2.273	1.2421	21 52.4	1.2822	7 58.1	0.8590	7.227
27	22.3	0.6528	2.281	1.2433	21 52.6	1.2817	7 54.1	0.8627	7.290
28	22.4	0.6556	+2.289	1.2445	21 52.8	1.2811	7 50.0	0.8663	+7.350
29	22.5	0.6583	2.296	1.2457	21 53.0	1.2806	7 46.0	0.8697	7.408
30	22.5	0.6610	2.304	1.2469	21 53.2	1.2801	7 41.9	0.8730	7.464
31	22.6	0.6638	2.311	1.2480	21 53.4	1.2797	7 37.8	0.8761	7.518
Sept. 1	22.7	0.6665	2.319	1.2492	21 53.6	1.2792	7 33.7	0.8791	7.570
2	22.7	0.6692	+2.326	1.2503	21 53.8	1.2787	7 29.5	0.8820	+7.620

Tag	0ʰ Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1932	in 0.ˢ001	in 0.″01				in 0.″01	23° 27′		in 0.″01	in 0.001	
Juli 23	+ 2	+10	18.ʰ5	+28.″00	+4.″10	+ 3	1.″81	+8.″70	+10	67	87
24	− 4	9	16.8	28.13	4.13	− 7	1.81	8.72	+ 9	68	87
25	−10	9	15.0	28.27	4.16	−16	1.80	8.73	+ 6	68	87
26	−13	9	13.1	28.41	4.20	−21	1.77	8.75	+ 2	68	87
27	−14	9	11.3	28.55	4.23	−23	1.75	8.76	− 2	69	87
28	−13	10	9.6	28.68	4.25	−21	1.72	8.77	− 6	69	87
29	− 9	+11	8.3	+28.82	+4.28	−15	1.70	+8.79	− 9	69	87
30	− 4	11	7.0	28.96	4.31	− 7	1.70	8.81	−10	69	87
31	+ 2	10	5.6	29.10	4.33	+ 3	1.72	8.82	−10	70	87
Aug. 1	+ 7	9	3.9	29.23	4.36	+11	1.76	8.84	− 7	70	87
2	+11	8	1.8	29.37	4.38	+17	1.81	8.85	− 3	70	86
3	+12	8	23.3	29.51	4.40	+19	1.88	8.87	+ 1	71	86
4	+ 9	+ 9	21.0	+29.65	+4.42	+16	1.94	+8.89	+ 6	71	86
5	+ 5	10	19.1	29.79	4.44	+ 8	1.99	8.90	+10	71	86
6	− 2	11	17.6	29.92	4.45	− 3	2.02	8.92	+11	71	86
7	− 8	11	16.1	30.06	4.47	−13	2.02	8.94	+10	72	86
8	−13	11	14.4	30.20	4.48	−21	2.00	8.95	+ 6	72	86
9	−15	10	12.4	30.34	4.49	−25	1.96	8.97	+ 1	72	86
10	−13	+10	10.2	+30.47	+4.51	−22	1.92	+8.98	− 4	72	85
11	− 8	10	8.1	30.61	4.52	−13	1.90	9.00	− 9	73	85
12	− 1	11	6.2	30.75	4.52	− 1	1.89	9.02	−11	73	85
13	+ 7	12	4.5	30.89	4.53	+11	1.91	9.03	−11	73	85
14	+13	12	2.8	31.02	4.54	+22	1.95	9.05	− 8	73	85
15	+17	12	1.1	31.16	4.54	+28	2.01	9.06	− 3	74	85
16	+18	+12	23.5	+31.30	+4.55	+29	2.07	+9.08	+ 1	74	85
17	+15	11	21.9	31.44	4.55	+24	2.13	9.10	+ 6	74	85
18	+10	11	20.4	31.57	4.55	+16	2.18	9.11	+ 9	74	84
19	+ 4	11	18.9	31.71	4.55	+ 6	2.20	9.13	+10	75	84
20	− 3	10	17.3	31.85	4.54	− 5	2.21	9.14	+10	75	84
21	− 8	9	15.5	31.99	4.54	−14	2.20	9.16	+ 7	75	84
22	−12	+ 9	13.6	+32.12	+4.54	−20	2.18	+9.17	+ 3	75	84
23	−14	9	11.7	32.26	4.53	−23	2.15	9.19	− 1	75	84
24	−13	10	10.1	32.40	4.52	−22	2.12	9.20	− 5	76	84
25	−11	11	8.7	32.54	4.52	−18	2.10	9.21	− 8	76	84
26	− 6	11	7.5	32.68	4.51	−10	2.09	9.23	−10	76	84
27	− 1	10	6.2	32.81	4.50	− 1	2.10	9.24	−10	76	83
28	+ 5	+ 9	4.6	+32.95	+4.48	+ 8	2.13	+9.25	− 8	77	83
29	+ 9	7	2.6	33.09	4.47	+15	2.18	9.26	− 5	77	83
30	+11	7	23.9	33.23	4.46	+18	2.24	9.28	0	77	83
31	+10	8	21.5	33.36	4.44	+16	2.30	9.29	+ 5	77	83
Sept. 1	+ 6	10	19.6	33.50	4.43	+10	2.34	9.30	+ 9	77	83
2	0	+11	18.1	+33.64	+4.41	+ 1	2.37	+9.31	+11	78	83

Reduktionsgrößen 1932

Tag	0h Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1932	h	s	s		h m		h m		"
Sept. 2	22.7	0.6692	+2.326	1.2503	21 53.8	1.2787	7 29.5	0.8820	+7.620
3	22.8	0.6720	2.333	1.2515	21 54.1	1.2783	7 25.4	0.8846	7.667
4	22.9	0.6747	2.341	1.2526	21 54.3	1.2779	7 21.3	0.8872	7.713
5	22.9	0.6775	2.348	1.2537	21 54.5	1.2775	7 17.1	0.8896	7.756
6	23.0	0.6802	2.355	1.2547	21 54.7	1.2771	7 13.0	0.8919	7.797
7	23.1	0.6829	2.362	1.2558	21 54.9	1.2767	7 8.8	0.8941	7.836
8	23.1	0.6857	+2.369	1.2568	21 55.1	1.2764	7 4.6	0.8961	+7.872
9	23.2	0.6884	2.376	1.2579	21 55.4	1.2760	7 0.4	0.8980	7.906
10	23.3	0.6911	2.383	1.2589	21 55.6	1.2757	6 56.2	0.8998	7.939
11	23.3	0.6939	2.390	1.2599	21 55.8	1.2754	6 52.0	0.9014	7.969
12	23.4	0.6966	2.397	1.2609	21 56.1	1.2752	6 47.8	0.9029	7.996
13	23.5	0.6994	2.404	1.2619	21 56.3	1.2749	6 43.6	0.9042	8.021
14	23.5	0.7021	+2.411	1.2628	21 56.5	1.2747	6 39.4	0.9055	+8.044
15	23.6	0.7048	2.418	1.2638	21 56.8	1.2745	6 35.1	0.9066	8.065
16	23.6	0.7076	2.424	1.2647	21 57.0	1.2743	6 30.9	0.9076	8.083
17	23.7	0.7103	2.431	1.2656	21 57.3	1.2742	6 26.6	0.9084	8.099
18	23.8	0.7131	2.438	1.2665	21 57.5	1.2740	6 22.4	0.9091	8.112
19	23.8	0.7158	2.444	1.2674	21 57.8	1.2739	6 18.1	0.9097	8.123
20	23.9	0.7185	+2.451	1.2683	21 58.1	1.2738	6 13.9	0.9102	+8.132
21	0.0	0.7213	2.458	1.2692	21 58.3	1.2737	6 9.6	0.9106	8.139
22	0.0	0.7240	2.465	1.2701	21 58.6	1.2737	6 5.4	0.9108	8.143
23	0.1	0.7267	2.471	1.2709	21 58.9	1.2737	6 1.1	0.9109	8.145
24	0.2	0.7295	2.478	1.2718	21 59.2	1.2737	5 56.8	0.9109	8.145
25	0.2	0.7322	2.485	1.2726	21 59.5	1.2737	5 52.5	0.9107	8.142
26	0.3	0.7350	+2.491	1.2735	21 59.8	1.2738	5 48.3	0.9104	+8.136
27	0.4	0.7377	2.498	1.2743	22 0.1	1.2738	5 44.0	0.9100	8.128
28	0.4	0.7404	2.505	1.2751	22 0.4	1.2739	5 39.7	0.9095	8.118
29	0.5	0.7432	2.512	1.2760	22 0.7	1.2741	5 35.4	0.9088	8.106
30	0.6	0.7459	2.518	1.2768	22 1.1	1.2742	5 31.2	0.9080	8.091
Okt. 1	0.6	0.7486	2.525	1.2776	22 1.4	1.2744	5 26.9	0.9071	8.074
2	0.7	0.7514	+2.532	1.2784	22 1.7	1.2746	5 22.6	0.9060	+8.054
3	0.8	0.7541	2.539	1.2792	22 2.1	1.2748	5 18.3	0.9048	8.032
4	0.8	0.7569	2.546	1.2800	22 2.4	1.2751	5 14.1	0.9035	8.008
5	0.9	0.7596	2.552	1.2808	22 2.8	1.2753	5 9.8	0.9021	7.981
6	1.0	0.7623	2.559	1.2815	22 3.2	1.2756	5 5.5	0.9004	7.951
7	1.0	0.7651	2.566	1.2823	22 3.5	1.2759	5 1.3	0.8987	7.920
8	1.1	0.7678	+2.573	1.2831	22 3.9	1.2762	4 57.0	0.8969	+7.886
9	1.2	0.7705	2.580	1.2839	22 4.3	1.2766	4 52.8	0.8948	7.849
10	1.2	0.7733	2.587	1.2847	22 4.7	1.2769	4 48.5	0.8927	7.811
11	1.3	0.7760	2.594	1.2854	22 5.1	1.2773	4 44.3	0.8904	7.770
12	1.4	0.7788	2.602	1.2862	22 5.5	1.2777	4 40.0	0.8880	7.726
13	1.4	0.7815	+2.609	1.2870	22 5.9	1.2782	4 35.8	0.8854	+7.681

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1932	in 0.001 s	in 0.01″				in 0.01″	23° 27′		in 0.01″	in 0.001	
Sept. 2	0	+11	18.1 h	+33.64″	+4.41″	+ 1	2.37″	+9.31″	+11	78	83
3	− 6	11	16.6	33.78	4.39	−10	2.38	9.32	+10	78	83
4	−11	11	15.1	33.91	4.37	−19	2.36	9.33	+ 8	78	83
5	−14	10	13.1	34.05	4.35	−23	2.32	9.34	+ 3	78	83
6	−13	9	10.9	34.19	4.33	−22	2.27	9.35	− 3	78	83
7	− 9	10	8.6	34.33	4.31	−15	2.23	9.35	− 8	79	83
8	− 3	+11	6.6	+34.46	+4.29	− 4	2.20	+9.36	−11	79	82
9	+ 5	12	4.8	34.60	4.26	+ 9	2.20	9.37	−11	79	82
10	+12	12	3.3	34.74	4.24	+20	2.23	9.38	− 9	79	82
11	+17	12	1.7	34.88	4.22	+28	2.27	9.38	− 5	79	82
12	+18	12	0.1	35.01	4.19	+30	2.33	9.39	0	80	82
13	+17	12	22.4	35.15	4.17	+27	2.38	9.39	+ 5	80	82
14	+12	+11	20.9	+35.29	+4.14	+19	2.42	+9.40	+ 8	80	82
15	+ 6	11	19.3	35.43	4.11	+ 9	2.44	9.40	+10	80	82
16	− 1	10	17.8	35.57	4.09	− 2	2.44	9.40	+10	80	82
17	− 7	9	16.0	35.70	4.06	−11	2.42	9.41	+ 8	80	82
18	−11	9	14.2	35.84	4.03	−19	2.39	9.41	+ 5	81	82
19	−14	9	12.3	35.98	4.01	−23	2.35	9.41	+ 1	81	82
20	−14	+10	10.6	+36.12	+3.98	−23	2.31	+9.41	− 4	81	82
21	−12	11	9.2	36.25	3.95	−19	2.27	9.41	− 7	81	82
22	− 8	11	7.9	36.39	3.92	−13	2.24	9.41	− 9	81	82
23	− 3	10	6.7	36.53	3.89	− 5	2.23	9.41	−10	81	82
24	+ 3	9	5.3	36.67	3.86	+ 4	2.24	9.40	− 9	82	82
25	+ 7	8	3.5	36.80	3.84	+12	2.27	9.40	− 6	82	82
26	+10	+ 6	0.9	+36.94	+3.81	+16	2.31	+9.40	− 2	82	82
27	+10	7	22.1	37.08	3.78	+16	2.35	9.40	+ 3	82	82
28	+ 7	9	20.0	37.22	3.75	+11	2.39	9.39	+ 8	82	82
29	+ 1	10	18.3	37.35	3.72	+ 2	2.41	9.39	+10	82	82
30	− 5	11	16.9	37.49	3.70	− 8	2.41	9.38	+11	82	82
Okt. 1	−10	11	15.5	37.63	3.67	−17	2.38	9.37	+ 9	83	82
2	−14	+10	13.7	+37.77	+3.64	−23	2.33	+9.37	+ 4	83	82
3	−14	9	11.6	37.90	3.62	−23	2.27	9.36	− 1	83	82
4	−11	9	9.3	38.04	3.59	−18	2.20	9.35	− 6	83	82
5	− 5	10	7.1	38.18	3.56	− 7	2.16	9.34	−10	83	82
6	+ 3	11	5.3	38.32	3.54	+ 6	2.13	9.33	−11	83	82
7	+11	12	3.6	38.46	3.52	+18	2.13	9.32	−10	83	82
8	+17	+13	2.1	+38.59	+3.49	+27	2.15	+9.31	− 6	84	82
9	+19	13	0.5	38.73	3.47	+31	2.19	9.30	− 2	84	82
10	+18	12	22.9	38.87	3.45	+30	2.23	9.29	+ 3	84	82
11	+14	12	21.4	39.01	3.43	+23	2.25	9.27	+ 7	84	83
12	+ 8	11	19.9	39.14	3.41	+14	2.26	9.26	+10	84	83
13	+ 2	+10	18.4	+39.28	+3.39	+ 3	2.25	+9.25	+10	84	83

Tag	0ʰ Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1932	h	s	s		h m		h m		"
Okt. 13	1.4	0.7815	+2.609	1.2870	22 5.9	1.2782	4 35.8	0.8854	+7.681
14	1.5	0.7842	2.616	1.2878	22 6.3	1.2786	4 31.6	0.8827	7.633
15	1.6	0.7870	2.624	1.2886	22 6.7	1.2791	4 27.4	0.8798	7.582
16	1.6	0.7897	2.631	1.2894	22 7.2	1.2795	4 23.1	0.8767	7.529
17	1.7	0.7924	2.639	1.2902	22 7.6	1.2800	4 18.9	0.8736	7.475
18	1.8	0.7952	2.646	1.2910	22 8.0	1.2806	4 14.7	0.8703	7.418
19	1.8	0.7979	+2.654	1.2918	22 8.5	1.2811	4 10.5	0.8668	+7.358
20	1.9	0.8007	2.662	1.2926	22 8.9	1.2816	4 6.4	0.8631	7.297
21	1.9	0.8034	2.669	1.2934	22 9.4	1.2822	4 2.2	0.8593	7.233
22	2.0	0.8061	2.677	1.2942	22 9.9	1.2827	3 58.0	0.8553	7.166
23	2.1	0.8089	2.685	1.2950	22 10.3	1.2833	3 53.9	0.8511	7.098
24	2.1	0.8116	2.693	1.2959	22 10.8	1.2839	3 49.7	0.8468	7.027
25	2.2	0.8144	+2.701	1.2967	22 11.3	1.2845	3 45.6	0.8423	+6.955
26	2.3	0.8171	2.709	1.2976	22 11.7	1.2851	3 41.4	0.8376	6.880
27	2.3	0.8198	2.718	1.2984	22 12.2	1.2857	3 37.3	0.8327	6.803
28	2.4	0.8226	2.726	1.2993	22 12.7	1.2863	3 33.2	0.8276	6.723
29	2.5	0.8253	2.734	1.3001	22 13.2	1.2870	3 29.1	0.8223	6.642
30	2.5	0.8280	2.743	1.3010	22 13.7	1.2876	3 25.0	0.8168	6.559
31	2.6	0.8308	+2.752	1.3019	22 14.2	1.2882	3 20.9	0.8112	+6.474
Nov. 1	2.7	0.8335	2.760	1.3028	22 14.7	1.2889	3 16.8	0.8052	6.386
2	2.7	0.8363	2.769	1.3037	22 15.2	1.2895	3 12.8	0.7991	6.297
3	2.8	0.8390	2.778	1.3047	22 15.7	1.2902	3 8.7	0.7928	6.206
4	2.8	0.8417	2.787	1.3056	22 16.2	1.2908	3 4.7	0.7863	6.113
5	2.9	0.8445	2.796	1.3066	22 16.7	1.2915	3 0.6	0.7794	6.017
6	3.0	0.8472	+2.805	1.3075	22 17.3	1.2922	2 56.6	0.7723	+5.920
7	3.1	0.8499	2.815	1.3085	22 17.8	1.2928	2 52.6	0.7650	5.821
8	3.1	0.8527	2.824	1.3095	22 18.3	1.2935	2 48.6	0.7575	5.721
9	3.2	0.8554	2.833	1.3105	22 18.8	1.2941	2 44.6	0.7496	5.618
10	3.3	0.8582	2.843	1.3115	22 19.3	1.2948	2 40.6	0.7414	5.513
11	3.3	0.8609	2.853	1.3125	22 19.8	1.2954	2 36.6	0.7330	5.407
12	3.4	0.8636	+2.863	1.3135	22 20.4	1.2961	2 32.7	0.7242	+5.299
13	3.5	0.8664	2.872	1.3146	22 20.9	1.2967	2 28.7	0.7152	5.190
14	3.5	0.8691	2.882	1.3156	22 21.4	1.2973	2 24.8	0.7058	5.079
15	3.6	0.8718	2.892	1.3167	22 21.9	1.2979	2 20.9	0.6960	4.966
16	3.7	0.8746	2.902	1.3178	22 22.4	1.2986	2 16.9	0.6859	4.852
17	3.7	0.8773	2.913	1.3189	22 22.9	1.2992	2 13.0	0.6754	4.736
18	3.8	0.8801	+2.923	1.3200	22 23.4	1.2998	2 9.1	0.6646	+4.619
19	3.9	0.8828	2.934	1.3211	22 24.0	1.3004	2 5.2	0.6532	4.500
20	3.9	0.8855	2.944	1.3222	22 24.5	1.3009	2 1.3	0.6414	4.379
21	4.0	0.8883	2.955	1.3233	22 25.0	1.3015	1 57.4	0.6292	4.258
22	4.1	0.8910	2.966	1.3245	22 25.5	1.3021	1 53.6	0.6165	4.135
23	4.1	0.8938	+2.976	1.3256	22 26.0	1.3026	1 49.7	0.6031	+4.010

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	Δψ	Δψ'	Wahre Schiefe	Δε	Δε'	j	k
1932	in 0."001	in 0."01				in 0."01	23° 27'		in 0."01	in 0.001	
Okt. 13	+ 2	+10	18.4h	+39."28	+3."39	+ 3	2."25	+9."25	+10	84	83
14	− 5	9	16.7	39.42	3.37	− 8	2.22	9.23	+ 9	85	83
15	−10	9	14.8	39.56	3.35	−16	2.18	9.22	+ 6	85	83
16	−13	9	12.8	39.69	3.34	−21	2.12	9.20	+ 2	85	83
17	−14	9	10.9	39.83	3.32	−22	2.06	9.19	− 2	85	83
18	−12	10	9.5	39.97	3.31	−20	2.01	9.17	− 6	85	83
19	− 9	+11	8.2	+40.11	+3.30	−14	1.96	+9.15	− 9	85	83
20	− 4	10	7.0	40.24	3.28	− 7	1.93	9.14	−10	86	83
21	+ 1	10	5.7	40.38	3.27	+ 2	1.92	9.12	−10	86	83
22	+ 6	8	4.1	40.52	3.26	+ 9	1.92	9.10	− 7	86	84
23	+ 9	6	1.8	40.66	3.26	+14	1.94	9.08	− 3	86	84
24	+ 9	6	22.9	40.79	3.25	+15	1.97	9.07	+ 2	86	84
25	+ 7	+ 8	20.3	+40.93	+3.24	+12	2.00	+9.05	+ 6	86	84
26	+ 2	10	18.6	41.07	3.24	+ 4	2.01	9.03	+10	87	84
27	− 4	11	17.1	41.21	3.24	− 6	2.00	9.01	+11	87	84
28	−10	12	15.8	41.35	3.24	−16	1.97	8.99	+10	87	84
29	−14	11	14.2	41.48	3.24	−23	1.91	8.97	+ 6	87	84
30	−16	10	12.4	41.62	3.24	−25	1.84	8.95	+ 1	87	85
31	−13	+10	10.2	+41.76	+3.24	−21	1.76	+8.93	− 4	87	85
Nov. 1	− 7	10	7.9	41.90	3.25	−12	1.70	8.91	− 9	88	85
2	0	11	5.9	42.03	3.25	+ 1	1.65	8.88	−11	88	85
3	+ 9	12	4.1	42.17	3.26	+14	1.63	8.86	−11	88	85
4	+15	13	2.5	42.31	3.27	+25	1.64	8.84	− 8	88	85
5	+19	13	1.0	42.45	3.28	+32	1.66	8.82	− 3	88	85
6	+20	+13	23.5	+42.58	+3.30	+32	1.69	+8.80	+ 2	89	85
7	+17	13	22.0	42.72	3.31	+27	1.71	8.78	+ 6	89	86
8	+11	12	20.5	42.86	3.33	+18	1.72	8.76	+ 9	89	86
9	+ 4	11	19.0	43.00	3.34	+ 7	1.71	8.73	+10	89	86
10	− 2	10	17.4	43.13	3.36	− 4	1.67	8.71	+ 9	89	86
11	− 8	9	15.5	43.27	3.38	−13	1.62	8.69	+ 7	90	86
12	−12	+ 8	13.5	+43.41	+3.41	−19	1.56	+8.67	+ 3	90	86
13	−13	9	11.4	43.55	3.43	−21	1.50	8.65	− 1	90	86
14	−12	10	9.8	43.68	3.46	−20	1.44	8.63	− 5	90	86
15	− 9	10	8.4	43.82	3.48	−15	1.38	8.61	− 8	90	87
16	− 5	10	7.2	43.96	3.51	− 8	1.34	8.58	−10	91	87
17	0	10	6.0	44.10	3.54	0	1.32	8.56	−10	91	87
18	+ 5	+ 8	4.5	+44.24	+3.57	+ 8	1.32	+8.54	− 8	91	87
19	+ 8	7	2.6	44.37	3.61	+14	1.33	8.52	− 4	91	87
20	+10	6	23.8	44.51	3.64	+16	1.36	8.50	0	92	87
21	+ 8	7	21.0	44.65	3.68	+13	1.39	8.48	+ 5	92	87
22	+ 4	9	19.0	44.79	3.72	+ 6	1.40	8.46	+ 9	92	87
23	− 2	+11	17.4	+44.92	+3.76	− 4	1.40	+8.44	+11	92	88

Reduktionsgrößen 1932

Tag	0ʰ Welt-Zeit								
	St.-Zt. Grw.	t	f	log g	G	log h	H	log i	i
1932	h	s	s		h m		h m		″
Nov. 23	4.1	0.8938	+2.976	1.3256	22 26.0	1.3026	1 49.7	0.6031	+4.010
24	4.2	0.8965	2.987	1.3268	22 26.5	1.3032	1 45.9	0.5894	3.885
25	4.2	0.8992	2.998	1.3280	22 26.9	1.3037	1 42.0	0.5748	3.757
26	4.3	0.9020	3.009	1.3292	22 27.4	1.3042	1 38.2	0.5598	3.629
27	4.4	0.9047	3.020	1.3304	22 27.9	1.3047	1 34.3	0.5441	3.500
28	4.4	0.9074	3.032	1.3317	22 28.4	1.3052	1 30.5	0.5275	3.369
29	4.5	0.9102	+3.043	1.3329	22 28.9	1.3056	1 26.7	0.5101	+3.237
30	4.6	0.9129	3.054	1.3342	22 29.3	1.3061	1 22.9	0.4921	3.105
Dez. 1	4.6	0.9157	3.066	1.3354	22 29.8	1.3065	1 19.1	0.4731	2.972
2	4.7	0.9184	3.077	1.3367	22 30.2	1.3069	1 15.3	0.4529	2.837
3	4.8	0.9211	3.089	1.3380	22 30.7	1.3073	1 11.5	0.4315	2.701
4	4.8	0.9239	3.100	1.3393	22 31.1	1.3077	1 7.7	0.4089	2.564
5	4.9	0.9266	+3.112	1.3406	22 31.6	1.3080	1 3.9	0.3851	+2.427
6	5.0	0.9293	3.124	1.3419	22 32.0	1.3084	1 0.1	0.3597	2.289
7	5.0	0.9321	3.136	1.3432	22 32.4	1.3087	0 56.4	0.3324	2.150
8	5.1	0.9348	3.147	1.3445	22 32.8	1.3090	0 52.6	0.3032	2.010
9	5.2	0.9376	3.159	1.3458	22 33.2	1.3093	0 48.9	0.2718	1.870
10	5.2	0.9403	3.171	1.3471	22 33.6	1.3096	0 45.1	0.2381	1.730
11	5.3	0.9430	+3.183	1.3485	22 34.0	1.3098	0 41.3	0.2009	+1.588
12	5.4	0.9458	3.195	1.3498	22 34.4	1.3100	0 37.6	0.1602	1.446
13	5.4	0.9485	3.207	1.3512	22 34.8	1.3102	0 33.8	0.1149	1.303
14	5.5	0.9512	3.219	1.3525	22 35.2	1.3104	0 30.1	0.0645	1.160
15	5.6	0.9540	3.231	1.3539	22 35.6	1.3106	0 26.3	0.0073	1.017
16	5.6	0.9567	3.244	1.3553	22 35.9	1.3107	0 22.6	9.9410	0.873
17	5.7	0.9595	+3.256	1.3567	22 36.3	1.3108	0 18.9	9.8627	+0.729
18	5.8	0.9622	3.268	1.3580	22 36.6	1.3109	0 15.1	9.7672	0.585
19	5.8	0.9649	3.280	1.3594	22 36.9	1.3110	0 11.4	9.6444	0.441
20	5.9	0.9677	3.292	1.3608	22 37.2	1.3111	0 7.6	9.4713	0.296
21	6.0	0.9704	3.305	1.3622	22 37.6	1.3111	0 3.9	9.1790	0.151
22	6.0	0.9732	3.317	1.3636	22 37.9	1.3111	0 0.2	7.7782	+0.006
23	6.1	0.9759	+3.329	1.3649	22 38.2	1.3111	23 56.4	9.1399_n	−0.138
24	6.2	0.9786	3.341	1.3663	22 38.5	1.3111	23 52.7	9.4518_n	0.283
25	6.2	0.9814	3.353	1.3677	22 38.7	1.3110	23 48.9	9.6314_n	0.428
26	6.3	0.9841	3.366	1.3691	22 39.0	1.3110	23 45.2	9.7582_n	0.573
27	6.4	0.9868	3.378	1.3705	22 39.3	1.3109	23 41.5	9.8555_n	0.717
28	6.4	0.9896	3.390	1.3719	22 39.5	1.3107	23 37.7	9.9350_n	0.861
29	6.5	0.9923	+3.402	1.3733	22 39.8	1.3106	23 34.0	0.0022_n	−1.005
30	6.5	0.9951	3.414	1.3746	22 40.0	1.3104	23 30.2	0.0603_n	1.149
31	6.6	0.9978	3.426	1.3760	22 40.3	1.3102	23 26.5	0.1113_n	1.292
32	6.7	1.0005	+3.439	1.3774	22 40.5	1.3100	23 22.7	0.1569_n	−1.435

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1932.0	$\Delta\psi$	$\Delta\psi'$	Wahre Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1932	in 0ˢ.001	in 0ˢ.01				in 0".01	23° 27'		in 0".01	in 0.001	
Nov. 23	− 2	+11	17ʰ.4	+44".92	+3".76	− 4	1".40	+8".44	+11	92	88
24	− 9	12	16.1	45.06	3.80	−15	1.38	8.42	+10	93	88
25	−14	12	14.6	45.20	3.84	−23	1.33	8.41	+ 7	93	88
26	−17	11	12.9	45.34	3.88	−27	1.26	8.39	+ 3	93	88
27	−16	11	10.9	45.47	3.93	−26	1.19	8.37	− 3	93	88
28	−11	10	8.9	45.61	3.97	−18	1.12	8.35	− 8	94	88
29	− 3	+11	6.8	+45.75	+4.02	− 6	1.07	+8.34	−11	94	88
30	+ 5	12	4.9	45.89	4.07	+ 8	1.05	8.32	−11	94	88
Dez. 1	+13	12	3.1	46.02	4.12	+21	1.05	8.30	− 9	94	88
2	+18	13	1.5	46.16	4.17	+29	1.08	8.29	− 5	95	88
3	+20	13	23.9	46.30	4.22	+32	1.11	8.27	0	95	88
4	+18	13	22.4	46.44	4.27	+30	1.15	8.26	+ 5	95	89
5	+13	+12	21.1	+46.57	+4.32	+22	1.16	+8.24	+ 8	96	89
6	+ 7	11	19.6	46.71	4.38	+12	1.17	8.23	+10	96	89
7	0	10	18.1	46.85	4.43	+ 1	1.15	8.22	+10	96	89
8	− 6	8	16.3	46.99	4.49	− 9	1.11	8.21	+ 8	96	89
9	−10	8	14.2	47.13	4.55	−17	1.07	8.19	+ 4	97	89
10	−12	8	12.0	47.26	4.61	−20	1.01	8.18	0	97	89
11	−12	+ 9	10.2	+47.40	+4.66	−20	0.96	+8.17	− 4	97	89
12	−10	10	8.7	47.54	4.72	−16	0.91	8.16	− 7	98	89
13	− 6	10	7.4	47.68	4.78	− 9	0.88	8.15	−10	98	89
14	− 1	10	6.2	47.81	4.84	− 1	0.87	8.14	−10	98	89
15	+ 4	9	4.8	47.95	4.90	+ 7	0.87	8.14	− 9	99	89
16	+ 8	8	3.0	48.09	4.96	+13	0.90	8.13	− 5	99	89
17	+10	+ 7	0.7	+48.23	+5.03	+17	0.93	+8.12	− 1	99	89
18	+ 9	7	22.0	48.36	5.09	+15	0.97	8.12	+ 3	99	89
19	+ 6	9	19.7	48.50	5.15	+10	1.01	8.11	+ 8	100	89
20	0	10	18.0	48.64	5.21	0	1.03	8.11	+10	100	89
21	− 7	12	16.5	48.78	5.28	−11	1.03	8.10	+11	100	89
22	−13	12	15.0	48.91	5.34	−21	1.00	8.10	+ 9	101	89
23	−17	+12	13.5	+49.05	+5.40	−27	0.95	+8.10	+ 4	101	89
24	−17	11	11.7	49.19	5.46	−28	0.90	8.10	− 1	101	89
25	−14	11	9.7	49.33	5.52	−23	0.84	8.10	− 6	102	89
26	− 7	11	7.7	49.46	5.59	−12	0.81	8.10	−10	102	89
27	+ 1	11	5.7	49.60	5.65	+ 2	0.79	8.10	−11	102	89
28	+ 9	12	3.9	49.74	5.71	+15	0.80	8.10	−10	103	89
29	+16	+12	2.1	+49.88	+5.77	+26	0.84	+8.10	− 6	103	89
30	+19	12	0.4	50.02	5.83	+31	0.89	8.10	− 1	103	89
31	+18	13	22.9	50.15	5.89	+30	0.94	8.11	+ 4	104	89
32	+15	+12	21.4	+50.29	+5.95	+24	0.99	+8.11	+ 8	104	89

Reduktionsgrößen 1932

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1932	s			in 0.00001	″		in 0.001 ″	″		″	
Jan. 0.226	−0.0037	+0.00190	394	− 3	−8.588	6	−112	− 2.803	329	+20.240	58
1.223	−0.0009	0.00584	392	−224	8.594	7	−103	3.132	328	20.182	64
2.220	+0.0018	0.00976	392	−396	8.601	7	− 70	3.460	327	20.118	70
3.218	0.0045	0.01368	391	−469	8.608	8	− 18	3.787	326	20.048	76
4.215	0.0073	0.01759	388	−427	8.616	9	+ 35	4.113	324	19.972	83
5.212	0.0100	0.02147	387	−274	8.625	10	+ 80	4.437	324	19.889	89
6.209	0.0127	+0.02534	386	− 51	−8.635	10	+107	− 4.761	321	+19.800	95
7.207	0.0155	0.02920	384	+192	8.645	10	+108	5.082	320	19.705	101
8.204	0.0182	0.03304	383	+400	8.655	11	+ 87	5.402	318	19.604	108
9.201	0.0209	0.03687	381	+534	8.666	12	+ 48	5.720	316	19.496	113
10.199	0.0236	0.04068	378	+572	8.678	12	0	6.036	315	19.383	120
11.196	0.0264	0.04446	376	+510	8.690	13	− 44	6.351	312	19.263	126
12.193	0.0291	+0.04822	375	+367	−8.703	13	− 79	− 6.663	310	+19.137	132
13.190	0.0318	0.05197	373	+172	8.716	14	− 98	6.973	309	19.005	138
14.188	0.0346	0.05570	370	− 41	8.730	14	−100	7.282	306	18.867	143
15.185	0.0373	0.05940	367	−243	8.744	15	− 85	7.588	303	18.724	150
16.182	0.0400	0.06307	366	−406	8.759	15	− 54	7.891	300	18.574	155
17.179	0.0428	0.06673	362	−502	8.774	16	− 14	8.191	298	18.419	161
18.177	0.0455	+0.07035	360	−517	−8.790	16	+ 30	− 8.489	295	+18.258	167
19.174	0.0482	0.07395	357	−447	8.806	16	+ 69	8.784	293	18.091	173
20.171	0.0509	0.07752	354	−299	8.822	16	+ 97	9.077	290	17.918	178
21.169	0.0537	0.08106	352	−101	8.838	17	+106	9.367	287	17.740	184
22.166	0.0564	0.08458	349	+115	8.855	17	+ 94	9.654	284	17.556	189
23.163	0.0591	0.08807	346	+295	8.872	18	+ 63	9.938	281	17.367	195
24.160	0.0619	+0.09153	343	+399	−8.890	18	+ 15	−10.219	277	+17.172	199
25.158	0.0646	0.09496	341	+402	8.908	19	− 38	10.496	273	16.973	205
26.155	0.0673	0.09837	337	+297	8.927	18	− 82	10.769	271	16.768	210
27.152	0.0701	0.10174	334	+110	8.945	19	−109	11.040	266	16.558	215
28.149	0.0728	0.10508	331	−108	8.964	19	−110	11.306	264	16.343	221
29.147	0.0755	0.10839	328	−305	8.983	19	− 84	11.570	260	16.122	226
30.144	0.0783	+0.11167	324	−424	−9.002	18	− 40	−11.830	256	+15.896	230
31.141	0.0810	0.11491	322	−432	9.020	19	+ 15	12.086	251	15.666	236
Febr. 1.139	0.0837	0.11813	318	−325	9.039	19	+ 64	12.337	249	15.430	240
2.136	0.0864	0.12131	316	−133	9.058	20	+ 99	12.586	244	15.190	245
3.133	0.0892	0.12447	312	+107	9.078	19	+111	12.830	240	14.945	248
4.130	0.0919	0.12759	309	+331	9.097	19	+ 98	13.070	236	14.697	253
5.128	0.0946	+0.13068	305	+495	−9.116	19	+ 65	−13.306	231	+14.444	259
6.125	0.0974	0.13373	303	+566	9.135	19	+ 20	13.537	228	14.185	262
7.122	0.1001	0.13676	300	+540	9.154	19	− 28	13.765	223	13.923	267
8.119	0.1028	0.13976	296	+423	9.173	20	− 67	13.988	218	13.656	271
9.117	0.1056	0.14272	292	+243	9.193	19	− 94	14.206	214	13.385	275
10.114	0.1083	+0.14564		+ 32	−9.212		−102	−14.420		+13.110	

Reduktionsgrößen 1932

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1932	s			in 0.00001	″		in 0.001	″		″	
Febr. 10.114	0.1083	+0.14564	289	+ 32	−9.212	19	−102	−14.420	210	+13.110	279
11.111	0.1110	0.14853	287	−179	9.231	18	− 92	14.630	205	12.831	283
12.108	0.1137	0.15140	284	−358	9.249	19	− 68	14.835	200	12.548	287
13.106	0.1165	0.15424	281	−480	9.268	18	− 30	15.035	196	12.261	289
14.103	0.1192	0.15705	278	−529	9.286	18	+ 12	15.231	191	11.972	294
15.100	0.1219	0.15983	274	−495	9.304	17	+ 53	15.422	185	11.678	297
16.098	0.1247	+0.16257	271	−378	−9.321	17	+ 86	−15.607	182	+11.381	301
17.095	0.1274	0.16528	269	−201	9.338	17	+104	15.789	176	11.080	304
18.092	0.1301	0.16797	266	+ 5	9.355	17	+101	15.965	171	10.776	307
19.089	0.1329	0.17063	264	+203	9.372	17	+ 76	16.136	166	10.469	310
20.087	0.1356	0.17327	260	+341	9.389	16	+ 34	16.302	161	10.159	313
21.084	0.1383	0.17587	258	+387	9.405	16	− 17	16.463	156	9.846	317
22.081	0.1411	+0.17845	255	+334	−9.421	15	− 66	−16.619	150	+ 9.529	319
23.078	0.1438	0.18100	253	+182	9.436	15	−100	16.769	146	9.210	321
24.076	0.1465	0.18353	250	− 21	9.451	15	−113	16.915	140	8.889	324
25.073	0.1492	0.18603	248	−223	9.466	14	− 98	17.055	135	8.565	327
26.070	0.1520	0.18851	246	−372	9.480	13	− 59	17.190	130	8.238	329
27.068	0.1547	0.19097	243	−419	9.493	13	− 6	17.320	124	7.909	331
28.065	0.1574	+0.19340	241	−354	−9.506	13	+ 48	−17.444	119	+ 7.578	334
29.062	0.1602	0.19581	239	−190	9.519	12	+ 89	17.563	113	7.244	335
März 1.059	0.1629	0.19820	237	+ 37	9.531	12	+109	17.676	108	6.909	337
2.057	0.1656	0.20057	235	+272	9.543	11	+107	17.784	103	6.572	340
3.054	0.1684	0.20292	233	+464	9.554	11	+ 81	17.887	97	6.232	341
4.051	0.1711	0.20525	232	+570	9.565	10	+ 38	17.984	91	5.891	343
5.048	0.1738	+0.20757	230	+576	−9.575	9	− 11	−18.075	86	+ 5.548	343
6.046	0.1765	0.20987	229	+489	9.584	8	− 55	18.161	80	5.205	346
7.043	0.1793	0.21216	227	+324	9.592	8	− 85	18.241	76	4.859	347
8.040	0.1820	0.21443	226	+120	9.600	7	−101	18.317	68	4.512	348
9.038	0.1847	0.21669	225	− 95	9.607	7	− 98	18.385	64	4.164	349
10.035	0.1875	0.21894	223	−290	9.614	6	− 78	18.449	58	3.815	350
11.032	0.1902	+0.22117	222	−436	−9.620	5	− 45	−18.507	53	+ 3.465	351
12.029	0.1929	0.22339	222	−514	9.625	5	− 2	18.560	47	3.114	352
13.027	0.1957	0.22561	221	−514	9.630	5	+ 39	18.607	41	2.762	352
14.024	0.1984	0.22782	220	−434	9.635	4	+ 75	18.648	35	2.410	352
15.021	0.2011	0.23002	219	−284	9.639	3	+ 99	18.683	30	2.058	354
16.018	0.2039	0.23221	218	− 92	9.642	2	+106	18.713	24	1.704	353
17.016	0.2066	+0.23439	217	+104	−9.644	2	+ 89	−18.737	18	+ 1.351	354
18.013	0.2093	0.23656	218	+263	9.646	1	+ 53	18.755	14	0.997	354
19.010	0.2120	0.23874	218	+345	9.647	0	+ 4	18.769	7	0.643	354
20.007	0.2148	0.24092	218	+331	9.647	0	− 47	18.776	3	+ 0.289	354
21.005	0.2175	0.24310	218	+215	9.647	1	− 89	18.779	5	− 0.065	353
22.002	0.2202	+0.24528		+ 30	−9.646		−110	−18.774		− 0.418	

Reduktionsgrößen 1932

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1932	s			in 0.00001	″		in 0.001	″		″	
März 22.002	0.2202	+0.24528	219	+30	−9.646	2	−110	−18.774	9	−0.418	353
22.999	0.2230	0.24747	218	−172	9.644	2	−107	18.765	15	0.771	353
23.997	0.2257	0.24965	219	−338	9.642	3	−79	18.750	21	1.124	353
24.994	0.2284	0.25184	218	−424	9.639	4	−28	18.729	26	1.477	351
25.991	0.2312	0.25402	220	−393	9.635	4	+25	18.703	32	1.828	351
26.988	0.2339	0.25622	220	−257	9.631	5	+72	18.671	37	2.179	350
27.986	0.2366	+0.25842	221	−39	−9.626	6	+103	−18.634	43	−2.529	349
28.983	0.2393	0.26063	221	+205	9.620	7	+111	18.591	48	2.878	348
29.980	0.2421	0.26284	222	+423	9.613	7	+94	18.543	54	3.226	347
30.977	0.2448	0.26506	224	+570	9.606	7	+56	18.489	59	3.573	346
31.975	0.2475	0.26730	225	+616	9.599	8	+8	18.430	64	3.919	344
April 1.972	0.2503	0.26955	226	+559	9.591	8	−39	18.366	69	4.263	343
2.969	0.2530	+0.27181	227	+419	−9.583	9	−76	−18.297	75	−4.606	341
3.967	0.2557	0.27408	229	+220	9.574	10	−99	18.222	81	4.947	339
4.964	0.2585	0.27637	230	+3	9.564	10	−101	18.141	86	5.286	338
5.961	0.2612	0.27867	231	−206	9.554	11	−87	18.055	91	5.624	336
6.958	0.2639	0.28098	233	−370	9.543	11	−58	17.964	96	5.960	334
7.956	0.2667	0.28331	235	−476	9.532	12	−19	17.868	101	6.294	332
8.953	0.2694	+0.28566	237	−505	−9.520	13	+24	−17.767	107	−6.626	330
9.950	0.2721	0.28803	238	−454	9.507	13	+63	17.660	111	6.956	328
10.947	0.2748	0.29041	241	−335	9.494	14	+92	17.549	116	7.284	325
11.945	0.2776	0.29282	243	−164	9.480	13	+106	17.433	122	7.609	323
12.942	0.2803	0.29525	244	+30	9.467	14	+97	17.311	127	7.932	321
13.939	0.2830	0.29769	246	+199	9.453	15	+67	17.184	131	8.253	318
14.936	0.2858	+0.30015	249	+305	−9.438	15	+24	−17.053	136	−8.571	315
15.934	0.2885	0.30264	251	+320	9.423	15	−28	16.917	142	8.886	313
16.931	0.2912	0.30515	253	+235	9.408	16	−73	16.775	145	9.199	309
17.928	0.2940	0.30768	256	+71	9.392	16	−104	16.630	151	9.508	307
18.926	0.2967	0.31024	258	−132	9.376	16	−112	16.479	156	9.815	304
19.923	0.2994	0.31282	261	−322	9.360	17	−92	16.323	160	10.119	300
20.920	0.3021	+0.31543	263	−440	−9.343	17	−50	−16.163	165	−10.419	298
21.917	0.3049	0.31806	265	−453	9.326	17	+3	15.998	169	10.717	294
22.915	0.3076	0.32071	268	−345	9.309	18	+56	15.829	173	11.011	291
23.912	0.3103	0.32339	271	−146	9.291	18	+94	15.656	177	11.302	288
24.909	0.3131	0.32610	273	+103	9.273	18	+111	15.479	182	11.590	284
25.906	0.3158	0.32883	275	+348	9.255	18	+103	15.297	187	11.874	281
26.904	0.3185	+0.33158	278	+535	−9.237	19	+71	−15.110	191	−12.155	276
27.901	0.3213	0.33436	281	+631	9.218	18	+28	14.919	196	12.431	273
28.898	0.3240	0.33717	285	+615	9.200	19	−22	14.723	198	12.704	270
29.896	0.3267	0.34002	287	+505	9.181	19	−64	14.525	204	12.974	265
30.893	0.3295	0.34289	289	+325	9.162	19	−92	14.321	207	13.239	261
Mai 1.890	0.3322	+0.34578		+106	−9.143		−103	−14.114		−13.500	

Reduktionsgrößen 1932

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1932	s			in 0.00001	″		in 0.001 ″	″		″	
Mai 1.890	0.3322	+0.34578	292	+106	−9.143	19	−103	−14.114	211	−13.500	258
2.887	0.3349	0.34870	295	−110	9.124	19	− 94	13.903	215	13.758	254
3.885	0.3376	0.35165	298	−294	9.105	19	− 70	13.688	218	14.012	250
4.882	0.3404	0.35463	301	−423	9.086	19	− 33	13.470	222	14.262	245
5.879	0.3431	0.35764	303	−478	9.067	19	+ 9	13.248	226	14.507	241
6.876	0.3458	0.36067	307	−456	9.048	19	+ 49	13.022	230	14.748	237
7.874	0.3486	+0.36374	309	−360	−9.029	19	+ 82	−12.792	234	−14.985	232
8.871	0.3513	0.36683	311	−206	9.010	19	+102	12.558	236	15.217	229
9.868	0.3540	0.36994	314	− 23	8.991	18	+102	12.322	240	15.446	223
10.865	0.3568	0.37308	317	+155	8.973	19	+ 81	12.082	243	15.669	219
11.863	0.3595	0.37625	319	+282	8.954	18	+ 42	11.839	247	15.888	214
12.860	0.3622	0.37944	322	+328	8.936	19	− 6	11.592	249	16.102	211
13.857	0.3649	+0.38266	324	+274	−8.917	18	− 57	−11.343	253	−16.313	205
14.855	0.3677	0.38590	328	+129	8.899	18	− 94	11.090	256	16.518	200
15.852	0.3704	0.38918	330	− 73	8.881	18	−112	10.834	258	16.718	196
16.849	0.3731	0.39248	332	−283	8.863	18	−103	10.576	262	16.914	191
17.846	0.3759	0.39580	335	−442	8.845	17	− 70	10.314	264	17.105	185
18.844	0.3786	0.39915	337	−505	8.828	17	− 19	10.050	267	17.290	182
19.841	0.3813	+0.40252	340	−445	−8.811	18	+ 35	− 9.783	270	−17.472	176
20.838	0.3841	0.40592	342	−277	8.793	17	+ 81	9.513	273	17.648	171
21.835	0.3868	0.40934	344	− 34	8.776	16	+108	9.240	275	17.819	166
22.833	0.3895	0.41278	347	+230	8.760	16	+110	8.965	277	17.985	161
23.830	0.3923	0.41625	349	+457	8.744	15	+ 87	8.688	279	18.146	156
24.827	0.3950	0.41974	351	+600	8.729	15	+ 45	8.409	282	18.302	150
25.825	0.3977	+0.42325	353	+635	−8.714	15	− 4	− 8.127	284	−18.452	145
26.822	0.4004	0.42678	355	+565	8.699	15	− 50	7.843	286	18.597	141
27.819	0.4032	0.43033	357	+412	8.684	14	− 84	7.557	288	18.738	135
28.816	0.4059	0.43390	359	+204	8.670	14	−102	7.269	289	18.873	130
29.814	0.4086	0.43749	360	− 14	8.656	13	− 99	6.980	293	19.003	124
30.811	0.4114	0.44109	362	−215	8.643	12	− 79	6.687	293	19.127	118
31.808	0.4141	+0.44471	364	−364	−8.631	12	− 48	− 6.394	296	−19.245	114
Juni 1.805	0.4168	0.44835	365	−448	8.619	12	− 6	6.098	296	19.359	108
2.803	0.4196	0.45200	367	−453	8.607	12	+ 36	5.802	299	19.467	103
3.800	0.4223	0.45567	368	−383	8.595	11	+ 72	5.503	299	19.570	97
4.797	0.4250	0.45935	370	−246	8.584	10	+ 97	5.204	302	19.667	92
5.795	0.4277	0.46305	372	− 68	8.574	9	+103	4.902	302	19.759	86
6.792	0.4305	+0.46677	372	+116	−8.565	9	+ 92	− 4.600	304	−19.845	81
7.789	0.4332	0.47049	373	+268	8.556	9	+ 58	4.296	305	19.926	75
8.786	0.4359	0.47422	375	+346	8.547	8	+ 13	3.991	306	20.001	70
9.784	0.4387	0.47797	376	+331	8.539	8	− 38	3.685	307	20.071	64
10.781	0.4414	0.48173	376	+213	8.531	7	− 81	3.378	308	20.135	58
11.778	0.4441	+0.48549		+ 21	−8.524		−108	− 3.070		−20.193	

Reduktionsgrößen 1932

für 12ʰ Sternzeit Greenwich

Welt-Zeit	*t*	*A*	Δ	*A'*	*B*	Δ	*B'*	*C*	Δ	*D*	Δ
1932	"			in 0.00001	"		in 0.001	"		"	
Juni 11.778	0.4441	+0.48549	378	+ 21	−8.524	7	−108	−3.070	308	−20.193	53
12.775	0.4469	0.48927	378	−199	8.517	6	−109	2.762	309	20.246	48
13.773	0.4496	0.49305	378	−395	8.511	5	− 85	2.453	310	20.294	42
14.770	0.4523	0.49683	379	−512	8.506	5	− 40	2.143	310	20.336	36
15.767	0.4551	0.50062	380	−510	8.501	5	+ 14	1.833	311	20.372	31
16.765	0.4578	0.50442	380	−390	8.496	4	+ 65	1.522	311	20.403	23
17.762	0.4605	+0.50822	382	−175	−8.492	3	+101	−1.211	312	−20.426	20
18.759	0.4632	0.51204	381	+ 89	8.489	2	+112	0.899	311	20.446	13
19.756	0.4660	0.51585	381	+339	8.487	2	+ 99	0.588	312	20.459	7
20.754	0.4687	0.51966	380	+527	8.485	2	+ 63	−0.276	312	20.466	3
21.751	0.4714	0.52346	381	+613	8.483	1	+ 16	+0.036	312	20.469	4
22.748	0.4742	0.52727	381	+590	8.482	0	− 32	0.348	311	20.465	9
23.745	0.4769	+0.53108	381	+470	−8.482	0	− 73	+0.659	312	−20.456	14
24.743	0.4796	0.53489	380	+284	8.482	1	− 98	0.971	311	20.442	21
25.740	0.4824	0.53869	380	+ 68	8.483	2	−104	1.282	311	20.421	26
26.737	0.4851	0.54249	379	−142	8.485	2	− 90	1.593	310	20.395	31
27.735	0.4878	0.54628	379	−312	8.487	3	− 62	1.903	310	20.364	37
28.732	0.4905	0.55007	378	−420	8.490	3	− 24	2.213	309	20.327	43
29.729	0.4933	+0.55385	378	−452	−8.493	3	+ 18	+2.522	309	−20.284	49
30.726	0.4960	0.55763	376	−409	8.496	4	+ 58	2.831	307	20.235	54
Juli 1.724	0.4987	0.56139	376	−293	8.500	4	+ 88	3.138	307	20.181	59
2.721	0.5015	0.56515	375	−127	8.504	5	+103	3.445	306	20.122	66
3.718	0.5042	0.56890	372	+ 61	8.509	6	+ 97	3.751	305	20.056	70
4.715	0.5069	0.57262	372	+232	8.515	7	+ 73	4.056	303	19.986	76
5.713	0.5097	+0.57634	370	+346	−8.522	7	+ 31	+4.359	303	−19.910	82
6.710	0.5124	0.58004	370	+373	8.529	7	− 18	4.662	301	19.828	87
7.707	0.5151	0.58374	369	+298	8.536	8	− 65	4.963	300	19.741	93
8.704	0.5179	0.58743	367	+132	8.544	9	−100	5.263	298	19.648	97
9.702	0.5206	0.59110	366	− 84	8.553	9	−111	5.561	297	19.551	104
10.699	0.5233	0.59476	364	−301	8.562	9	− 96	5.858	295	19.447	109
11.696	0.5260	+0.59840	362	−460	−8.571	9	− 59	+6.153	294	−19.338	114
12.694	0.5288	0.60202	361	−519	8.580	10	− 7	6.447	292	19.224	119
13.691	0.5315	0.60563	359	−454	8.590	11	+ 46	6.739	290	19.105	125
14.688	0.5342	0.60922	357	−280	8.601	11	+ 90	7.029	288	18.980	129
15.685	0.5370	0.61279	355	− 36	8.612	11	+112	7.317	286	18.851	135
16.683	0.5397	0.61634	354	+222	8.623	12	+108	7.603	284	18.716	140
17.680	0.5424	+0.61988	351	+440	−8.635	12	+ 81	+7.887	282	−18.576	145
18.677	0.5452	0.62339	348	+568	8.647	12	+ 36	8.169	280	18.431	151
19.674	0.5479	0.62687	347	+587	8.659	13	− 15	8.449	277	18.280	156
20.672	0.5506	0.63034	345	+507	8.672	14	− 60	8.726	275	18.124	160
21.669	0.5533	0.63379	342	+344	8.686	14	− 91	9.001	273	17.964	166
22.666	0.5561	+0.63721		+135	−8.700		−104	+9.274		−17.798	

Reduktionsgrößen 1932

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1932	s			in 0.00001	"		in 0.001	"		"	
Juli 22.666	0.5561	+0.63721	340	+135	−8.700	14	−104	+ 9.274	270	−17.798	170
23.664	0.5588	0.64061	338	− 78	8.714	14	− 97	9.544	268	17.628	175
24.661	0.5615	0.64399	336	−263	8.728	14	− 73	9.812	265	17.453	180
25.658	0.5643	0.64735	333	−393	8.742	15	− 38	10.077	262	17.273	186
26.655	0.5670	0.65068	330	−453	8.757	15	+ 4	10.339	259	17.087	189
27.653	0.5697	0.65398	328	−438	8.772	15	+ 44	10.598	256	16.898	195
28.650	0.5725	+0.65726	326	−348	−8.787	15	+ 78	+10.854	254	−16.703	199
29.647	0.5752	0.66052	323	−201	8.802	16	+ 99	11.108	250	16.504	204
30.644	0.5779	0.66375	320	− 16	8.818	15	+102	11.358	248	16.300	209
31.642	0.5807	0.66695	318	+165	8.833	16	+ 84	11.606	244	16.091	212
Aug. 1.639	0.5834	0.67013	315	+309	8.849	16	+ 50	11.850	241	15.879	218
2.636	0.5861	0.67328	313	+376	8.865	16	+ 3	12.091	237	15.661	221
3.633	0.5888	+0.67641	310	+350	−8.881	16	− 47	+12.328	235	−15.440	227
4.631	0.5916	0.67951	307	+224	8.897	16	− 88	12.563	231	15.213	230
5.628	0.5943	0.68258	304	+ 28	8.913	16	−109	12.794	228	14.983	234
6.625	0.5970	0.68562	302	−191	8.929	17	−106	13.022	223	14.749	240
7.623	0.5998	0.68864	299	−377	8.946	16	− 78	13.245	220	14.509	243
8.620	0.6025	0.69163	296	−480	8.962	16	− 31	13.465	217	14.266	246
9.617	0.6052	+0.69459	294	−469	−8.978	16	+ 23	+13.682	213	−14.020	251
10.614	0.6080	0.69753	291	−340	8.994	16	+ 73	13.895	209	13.769	255
11.612	0.6107	0.70044	289	−124	9.010	17	+105	14.104	205	13.514	260
12.609	0.6134	0.70333	285	+130	9.027	16	+112	14.309	201	13.254	262
13.606	0.6161	0.70618	283	+361	9.043	16	+ 93	14.510	197	12.992	266
14.604	0.6189	0.70901	281	+524	9.059	16	+ 55	14.707	194	12.726	270
15.601	0.6216	+0.71182	278	+584	−9.075	15	+ 5	+14.901	189	−12.456	273
16.598	0.6243	0.71460	275	+538	9.090	15	− 42	15.090	185	12.183	278
17.595	0.6271	0.71735	272	+400	9.105	15	− 81	15.275	181	11.905	280
18.593	0.6298	0.72007	270	+204	9.120	15	−102	15.456	176	11.625	284
19.590	0.6325	0.72277	267	− 10	9.135	16	−102	15.632	173	11.341	287
20.587	0.6353	0.72544	265	−208	9.151	15	− 84	15.805	168	11.054	290
21.584	0.6380	+0.72809	262	−358	−9.166	14	− 53	+15.973	163	−10.764	294
22.582	0.6407	0.73071	260	−446	9.180	14	− 12	16.136	158	10.470	297
23.579	0.6435	0.73331	257	−459	9.194	14	+ 30	16.294	155	10.173	299
24.576	0.6462	0.73588	255	−398	9.208	13	+ 67	16.449	150	9.874	303
25.573	0.6489	0.73843	253	−274	9.221	13	+ 93	16.599	145	9.571	305
26.571	0.6516	0.74096	251	−104	9.234	13	+103	16.744	141	9.266	308
27.568	0.6544	+0.74347	249	+ 79	−9.247	12	+ 93	+16.885	136	− 8.958	311
28.565	0.6571	0.74596	246	+240	9.259	12	+ 65	17.021	130	8.647	314
29.562	0.6598	0.74842	244	+339	9.271	12	+ 21	17.151	127	8.333	316
30.560	0.6626	0.75086	242	+352	9.283	11	− 28	17.278	121	8.017	318
31.557	0.6653	0.75328	240	+270	9.294	11	− 74	17.399	116	7.699	320
Sept. 1.554	0.6680	+0.75568		+105	−9.305		−103	+17.515		− 7.379	

Reduktionsgrößen 1932

für 12h Sternzeit Greenwich

Welt-Zeit	t	A		A'	B		B'	C		D	
1932	h			in 0.00001			in 0.001				
Sept. 1.554	0.6680	+0.75568	239	+105	−9.305	10	−103	+17.515	112	−7.379	323
2.552	0.6708	0.75807	237	−101	9.315	10	−111	17.627	106	7.056	325
3.549	0.6735	0.76044	234	−299	9.325	9	− 91	17.733	102	6.731	327
4.546	0.6762	0.76278	233	−432	9.334	9	− 51	17.835	97	6.404	329
5.543	0.6789	0.76511	232	−463	9.343	8	+ 3	17.932	92	6.075	331
6.541	0.6817	0.76743	230	−376	9.351	8	+ 55	18.024	86	5.744	333
7.538	0.6844	+0.76973	229	−191	−9.359	7	+ 95	+18.110	81	−5.411	334
8.535	0.6871	0.77202	227	+ 53	9.366	7	+112	18.191	77	5.077	337
9.532	0.6899	0.77429	225	+300	9.373	6	+102	18.268	71	4.740	338
10.530	0.6926	0.77654	224	+491	9.379	6	+ 72	18.339	65	4.402	339
11.527	0.6953	0.77878	223	+590	9.385	5	+ 24	18.404	61	4.063	340
12.524	0.6981	0.78101	223	+580	9.390	4	− 26	18.465	55	3.723	342
13.522	0.7008	+0.78324	221	+470	−9.394	4	− 69	+18.520	50	−3.381	343
14.519	0.7035	0.78545	221	+287	9.398	4	− 95	18.570	45	3.038	344
15.516	0.7063	0.78766	220	+ 71	9.402	3	−104	18.615	39	2.694	345
16.513	0.7090	0.78986	219	−138	9.405	2	− 93	18.654	34	2.349	346
17.511	0.7117	0.79205	219	−310	9.407	1	− 66	18.688	28	2.003	346
18.508	0.7144	0.79424	218	−422	9.408	1	− 26	18.716	23	1.657	347
19.505	0.7172	+0.79642	217	−462	−9.409	0	+ 16	+18.739	18	−1.310	348
20.502	0.7199	0.79859	217	−428	9.409	0	+ 55	18.757	13	0.962	348
21.500	0.7226	0.80076	217	−330	9.409	1	+ 86	18.770	7	0.614	349
22.497	0.7254	0.80293	217	−178	9.408	2	+101	18.777	1	−0.265	349
23.494	0.7281	0.80510	217	− 3	9.406	3	+ 99	18.778	5	+0.084	349
24.492	0.7308	0.80727	218	+161	9.403	3	+ 77	18.773	9	0.433	349
25.489	0.7336	+0.80945	217	+281	−9.400	3	+ 39	+18.764	15	+0.782	349
26.486	0.7363	0.81162	217	+325	9.397	4	− 8	18.749	20	1.131	349
27.483	0.7390	0.81379	219	+278	9.393	5	− 56	18.729	26	1.480	349
28.481	0.7417	0.81598	218	+144	9.388	6	− 95	18.703	31	1.829	348
29.478	0.7445	0.81816	219	− 46	9.382	6	−111	18.672	37	2.177	348
30.475	0.7472	0.82035	220	−247	9.376	7	−102	18.635	43	2.525	347
Okt. 1.472	0.7499	+0.82255	220	−403	−9.369	8	− 70	+18.592	49	+2.872	347
2.470	0.7527	0.82475	222	−471	9.361	8	− 20	18.543	53	3.219	346
3.467	0.7554	0.82697	223	−422	9.353	8	+ 35	18.490	58	3.565	345
4.464	0.7581	0.82920	224	−265	9.345	9	+ 80	18.432	64	3.910	344
5.461	0.7609	0.83144	225	− 28	9.336	10	+108	18.368	70	4.254	344
6.459	0.7636	0.83369	226	+227	9.326	11	+109	18.298	75	4.598	342
7.456	0.7663	+0.83595	227	+454	−9.315	11	+ 87	+18.223	81	+4.940	341
8.453	0.7691	0.83822	229	+594	9.304	11	+ 44	18.142	86	5.281	339
9.451	0.7718	0.84051	230	+626	9.293	12	− 8	18.056	91	5.620	338
10.448	0.7745	0.84281	232	+550	9.281	13	− 54	17.965	96	5.958	336
11.445	0.7772	0.84513	235	+386	9.268	13	− 89	17.869	104	6.294	335
12.442	0.7800	+0.84748		+173	−9.255		−104	+17.765		+6.629	

Reduktionsgrößen 1932

für 12^h Sternzeit Greenwich

Welt-Zeit	t	A	Δ	A′	B	Δ	B′	C	Δ	D	Δ
1932	a			in 0.00001	″		in 0.001	″		″	
Okt. 12.442	0.7800	+0.84748	236	+173	−9.255	14	−104	+17.765	106	+ 6.629	332
13.440	0.7827	0.84984	238	− 46	9.241	15	− 98	17.659	113	6.961	332
14.437	0.7854	0.85222	240	−238	9.226	14	− 77	17.546	119	7.293	329
15.434	0.7882	0.85462	242	−375	9.212	15	− 41	17.427	123	7.622	327
16.431	0.7909	0.85704	244	−442	9.197	16	+ 1	17.304	128	7.949	324
17.429	0.7936	0.85948	246	−436	9.181	17	+ 41	17.176	134	8.273	323
18.426	0.7964	+0.86194	248	−359	−9.164	17	+ 75	+17.042	139	+ 8.596	320
19.423	0.7991	0.86442	251	−230	9.147	17	+ 97	16.903	144	8.916	318
20.421	0.8018	0.86693	253	− 66	9.130	18	+101	16.759	149	9.234	315
21.418	0.8045	0.86946	256	+101	9.112	18	+ 87	16.610	154	9.549	312
22.415	0.8073	0.87202	259	+233	9.094	18	+ 55	16.456	160	9.861	309
23.412	0.8100	0.87461	262	+300	9.076	18	+ 10	16.296	164	10.170	307
24.410	0.8127	+0.87723	264	+283	−9.058	19	− 38	+16.132	169	+10.477	303
25.407	0.8155	0.87987	267	+174	9.039	19	− 81	15.963	174	10.780	301
26.404	0.8182	0.88254	269	− 2	9.020	20	−105	15.789	179	11.081	297
27.401	0.8209	0.88523	272	−210	9.000	20	−108	15.610	183	11.378	294
28.399	0.8237	0.88795	275	−391	8.980	20	− 85	15.427	190	11.672	290
29.396	0.8264	0.89070	277	−494	8.960	21	− 41	15.237	193	11.962	288
30.393	0.8291	+0.89347	282	−489	−8.939	21	+ 13	+15.044	198	+12.250	284
31.390	0.8319	0.89629	284	−364	8.918	21	+ 64	14.846	203	12.534	280
Nov. 1.388	0.8346	0.89913	287	−145	8.897	22	+101	14.643	207	12.814	275
2.385	0.8373	0.90200	290	+122	8.875	21	+113	14.436	212	13.089	273
3.382	0.8400	0.90490	293	+378	8.854	21	+ 99	14.224	215	13.362	269
4.380	0.8428	0.90783	296	+563	8.833	21	+ 62	14.009	221	13.631	265
5.377	0.8455	+0.91079	301	+647	−8.812	22	+ 14	+13.788	224	+13.896	260
6.374	0.8482	0.91380	303	+617	8.790	21	− 36	13.564	229	14.156	256
7.371	0.8510	0.91683	306	+483	8.769	22	− 77	13.335	234	14.412	252
8.369	0.8537	0.91989	308	+284	8.747	21	−101	13.101	237	14.664	247
9.366	0.8564	0.92297	313	+ 60	8.726	22	−104	12.864	241	14.911	244
10.363	0.8592	0.92610	315	−150	8.704	21	− 87	12.623	246	15.155	238
11.360	0.8619	+0.92925	319	−311	−8.683	22	− 56	+12.377	249	+15.393	234
12.358	0.8646	0.93244	322	−405	8.661	21	− 15	12.128	253	15.627	229
13.355	0.8673	0.93566	325	−424	8.640	22	+ 27	11.875	256	15.856	224
14.352	0.8701	0.93891	328	−372	8.618	21	+ 63	11.619	261	16.080	220
15.350	0.8728	0.94219	330	−259	8.597	21	+ 91	11.358	264	16.300	214
16.347	0.8755	0.94549	333	−107	8.576	21	+101	11.094	268	16.514	210
17.344	0.8783	+0.94882	337	+ 59	−8.555	20	+ 94	+10.826	272	+16.724	205
18.341	0.8810	0.95219	341	+204	8.535	20	+ 69	10.554	274	16.929	200
19.339	0.8837	0.95560	343	+294	8.515	20	+ 27	10.280	278	17.129	194
20.336	0.8865	0.95903	346	+304	8.495	20	− 19	10.002	280	17.323	189
21.333	0.8892	0.96249	348	+221	8.475	20	− 66	9.722	284	17.512	184
22.330	0.8919	+0.96597		+ 59	−8.455		− 98	+ 9.438		+17.696	

Reduktionsgrößen 1932

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1932	ʰ			in 0.00001			in 0.001				
Nov. 22.330	0.8919	+0.96597	351	+ 59	−8.455	19	− 98	+9.438	288	+17.696	179
23.328	0.8946	0.96948	354	−150	8.436	18	−109	9.150	289	17.875	172
24.325	0.8974	0.97302	356	−354	8.418	18	− 97	8.861	293	18.047	167
25.322	0.9001	0.97658	359	−501	8.400	18	− 60	8.568	296	18.214	162
26.320	0.9028	0.98017	362	−545	8.382	18	− 9	8.272	298	18.376	156
27.317	0.9056	0.98379	364	−472	8.364	17	+ 45	7.974	302	18.532	150
28.314	0.9083	+0.98743	367	−282	−8.347	17	+ 87	+7.672	303	+18.682	144
29.311	0.9110	0.99110	369	− 23	8.330	17	+111	7.369	305	18.826	139
30.309	0.9138	0.99479	372	+252	8.313	16	+107	7.064	308	18.965	134
Dez. 1.306	0.9165	0.99851	374	+482	8.297	15	+ 79	6.756	311	19.099	127
2.303	0.9192	1.00225	375	+619	8.282	15	+ 33	6.445	313	19.226	121
3.300	0.9220	1.00600	378	+642	8.267	14	− 18	6.132	314	19.347	115
4.298	0.9247	+1.00978	380	+554	−8.253	13	− 64	+5.818	316	+19.462	109
5.295	0.9274	1.01358	382	+379	8.240	13	− 94	5.502	318	19.571	102
6.292	0.9301	1.01740	383	+162	8.227	12	−105	5.184	320	19.673	97
7.289	0.9329	1.02123	385	− 55	8.215	12	− 96	4.864	322	19.770	91
8.287	0.9356	1.02508	387	−237	8.203	11	− 70	4.542	323	19.861	84
9.284	0.9383	1.02895	388	−359	8.192	11	− 32	4.219	324	19.945	78
10.281	0.9411	+1.03283	389	−407	−8.181	10	+ 11	+3.895	326	+20.023	72
11.279	0.9438	1.03672	390	−378	8.171	10	+ 50	3.569	326	20.095	66
12.276	0.9465	1.04062	391	−285	8.161	9	+ 81	3.243	328	20.161	60
13.273	0.9493	1.04453	392	−142	8.152	8	+ 98	2.915	329	20.221	53
14.270	0.9520	1.04845	393	+ 23	8.144	8	+ 98	2.586	330	20.274	47
15.268	0.9547	1.05238	394	+179	8.136	7	+ 80	2.256	331	20.321	40
16.265	0.9574	+1.05632	395	+292	−8.129	7	+ 45	+1.925	331	+20.361	34
17.262	0.9602	1.06027	396	+334	8.122	6	0	1.594	331	20.395	28
18.259	0.9629	1.06423	396	+287	8.116	5	− 47	1.263	333	20.423	21
19.257	0.9656	1.06819	396	+147	8.111	4	− 88	0.930	332	20.444	14
20.254	0.9684	1.07215	397	− 55	8.107	3	−107	0.598	333	20.458	8
21.251	0.9711	1.07612	396	−275	8.104	3	−104	+0.265	333	20.466	2
22.249	0.9738	+1.08008	397	−460	−8.101	2	− 76	−0.068	333	+20.468	4
23.246	0.9766	1.08405	396	−561	8.099	2	− 29	0.401	333	20.464	11
24.243	0.9793	1.08801	397	−544	8.097	1	+ 25	0.734	333	20.453	17
25.240	0.9820	1.09198	396	−406	8.096	1	+ 75	1.067	332	20.436	24
26.238	0.9848	1.09594	396	−172	8.097	0	+107	1.399	332	20.412	30
27.235	0.9875	1.09990	395	+101	8.097	1	+112	1.731	332	20.382	37
28.232	0.9902	+1.10385	394	+359	−8.098	2	+ 93	−2.063	330	+20.345	43
29.229	0.9929	1.10779	393	+543	8.100	3	+ 52	2.393	330	20.302	50
30.227	0.9957	1.11172	392	+619	8.103	3	+ 3	2.723	329	20.252	56
31.224	0.9984	1.11564	392	+581	8.106	4	− 47	3.052	329	20.196	62
32.221	1.0011	+1.11956		+445	−8.110		− 85	−3.381		+20.134	

Übertragung mittlerer Sternörter

von dem Äquinoktium t_1 auf $t_2 = 1932.0$

t_1	$m^s(t_2-t_1)$	$\log[n^s(t_2-t_1)]$	$\log[n''(t_2-t_1)]$
1755	+9m 3.618s	2.374033	3.550124
1790	7 16.168	2.278316	3.454407
1800	6 45.464	2.246592	3.422683
1810	6 14.759	2.212368	3.388459
1825	5 28.697	2.155379	3.331470
1830	+5 13.342	2.134591	3.310682
1835	4 57.987	2.112758	3.288849
1840	4 42.631	2.089769	3.265860
1845	4 27.274	2.065496	3.241587
1850	4 11.918	2.039786	3.215877
1855	+3 56.561	2.012458	3.188549
1860	3 41.203	1.98329	3.159385
1865	3 25.845	1.95203	3.128124
1870	3 10.487	1.91834	3.094436
1875	2 55.127	1.88182	3.057915
1880	+2 39.767	1.84195	3.018038
1885	2 24.407	1.79804	2.97413
1890	2 9.047	1.74918	2.92527
1895	1 53.686	1.69413	2.87022
1900	1 38.324	1.63108	2.80717
1905	+1 22.962	1.55729	2.73338
1910	1 7.600	1.46834	2.64443
1915	0 52.237	1.35636	2.53245
1920	0 36.874	1.20509	2.38118
1925	0 21.510	0.97100	2.14709
1930	+0 6.146	0.42693	1.60302
1935	−0 9.219	0.60301_n	1.77910_n

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1932.0$, ist ferner α', δ' der genäherte Sternort für die Zeit

$$\frac{1}{2}(t_1 + t_2),$$

so ist

$$\alpha_2 = \alpha_1 + m^s(t_2-t_1) + [n^s(t_2-t_1)] \sin \alpha' \operatorname{tg} \delta'$$
$$\delta_2 = \delta_1 + [n''(t_2-t_1)] \cos \alpha'$$

Übertragung mittlerer Polsternörter

von dem Äquinoktium t_1 auf $t_2 = 1932.0$

t_1	90° − (N)	(m) + (N) − 90°	(n)
1755	+67′ 55.99″	+67′ 58.47″	+59′ 8.91″
1790	54 30.51	54 32.12	47 27.00
1800	50 40.33	50 41.71	44 6.47
1810	46 50.13	46 51.31	40 45.93
1825	41 4.79	41 5.70	35 45.15
1830	+39 9.67	+39 10.50	+34 4.89
1835	37 14.54	37 15.29	32 24.64
1840	35 19.41	35 20.08	30 44.38
1845	33 24.27	33 24.87	29 4.13
1850	31 29.12	31 29.66	27 23.88
1855	+29 33.97	+29 34.44	+25 43.63
1860	27 38.82	27 39.23	24 3.38
1865	25 43.66	25 44.02	22 23.13
1870	23 48.49	23 48.81	20 42.89
1875	21 53.32	21 53.59	19 2.64
1880	+19 58.15	+19 58.37	+17 22.40
1885	18 2.96	18 3.14	15 42.16
1890	16 7.77	16 7.92	14 1.92
1895	14 12.58	14 12.70	12 21.69
1900	12 17.38	12 17.47	10 41.45
1905	+10 22.18	+10 22.24	+ 9 1.22
1910	8 26.98	8 27.02	7 20.99
1915	6 31.76	6 31.79	5 40.76
1920	4 36.55	4 36.55	4 0.54
1925	2 41.32	2 41.32	2 20.31
1930	+ 0 46.09	+ 0 46.10	+ 0 40.09
1935	− 1 9.15	− 1 9.14	− 1 0.13

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1932.0$, so hat man

zur Reduktion von dem Äquinoktium t_1 auf t_2:

$$a_1 = \alpha_1 + [90° - (N)]$$

$$p_1 = \left(\operatorname{tang} \delta_1 + \cos a_1 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$$

$$\alpha_2 = a_1 + [(m) + (N) - 90°] + \Delta a_1$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_2 - \delta_1) = \cos (a_1 + \tfrac{1}{2}\Delta a_1) \sec \tfrac{1}{2}\Delta a_1 \operatorname{tang} \tfrac{1}{2}(n)$$

zur Reduktion von dem Äquinoktium t_2 auf t_1:

$$a_2 = \alpha_2 - [(m) + (N) - 90°]$$

$$p_2 = -\left(\operatorname{tang} \delta_2 - \cos a_2 \operatorname{tang} \tfrac{1}{2}(n)\right) \sin (n)$$

$$\operatorname{tang} \Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$$

$$\alpha_1 = a_2 - [90° - (N)] + \Delta a_2$$

$$\operatorname{tang} \tfrac{1}{2}(\delta_1 - \delta_2) = -\cos (a_2 + \tfrac{1}{2}\Delta a_2) \sec \tfrac{1}{2}\Delta a_2 \operatorname{tang} \tfrac{1}{2}(n)$$

Reduktion scheinbarer Rektaszensions- und Deklinations-Differenzen auf mittlere für den Jahresanfang.

Sind $\Delta\alpha$ und $\Delta\delta$ die gemessenen, scheinbaren Koordinatendifferenzen im Sinne Objekt minus Stern, $d\Delta\alpha$ und $d\Delta\delta$ die an ihnen anzubringenden Korrektionen, um Koordinatendifferenzen zu erhalten, die sich auf das mittlere Äquinoktium des Jahresanfangs beziehen, so wird

$$d\Delta\alpha = (d\Delta\alpha)_1 + (d\Delta\alpha)_2$$
$$d\Delta\delta = (d\Delta\delta)_1 + (d\Delta\delta)_2,$$

wobei

$$(d\Delta\alpha)_1 = -j\cos(G+\alpha)\frac{\operatorname{tg}\delta}{15}\Delta\alpha^m - j\sin(G+\alpha)\frac{\sec^2\delta}{225}\Delta\delta'$$

$$(d\Delta\alpha)_2 = -k\cos(H+\alpha)\frac{\sec\delta}{15}\Delta\alpha^m - k\sin(H+\alpha)\frac{\operatorname{tg}\delta\sec\delta}{225}\Delta\delta'$$

$$(d\Delta\delta)_1 = j\sin(G+\alpha)\Delta\alpha^m$$

$$(d\Delta\delta)_2 = k\sin(H+\alpha)\sin\delta\Delta\alpha^m - k\cos(H+\alpha)\frac{\cos\delta}{15}\Delta\delta' + [0.0003\,i\sin\delta\Delta\delta']$$

Hierin bezeichnen $(d\Delta\alpha)_1$ und $(d\Delta\delta)_1$ den Einfluß der Präzession und Nutation $(d\Delta\alpha)_2$ und $(d\Delta\delta)_2$ den Einfluß der Aberration.

Die Größen G, H, j, k, i sind auf S. 238*—255* zu finden. Die Faktoren $\frac{1}{15}\operatorname{tg}\delta$, $\frac{1}{225}\sec^2\delta$, $\frac{1}{15}\sec\delta$, $\frac{1}{225}\operatorname{tg}\delta\sec\delta$, $\sin\delta$, $\frac{1}{15}\cos\delta$ entnehme man der Zusammenstellung auf S. 268*. Die numerischen Werte der Funktionen sinus und cosinus sind auf S. 269* enthalten. $\Delta\alpha^m$ bedeutet die in Zeitminuten ausgedrückte scheinbare Rektaszensionsdifferenz, $\Delta\delta'$ ist die in Bogenminuten ausgedrückte scheinbare Deklinationsdifferenz. Die Größen $d\Delta\alpha$ und $d\Delta\delta$ ergeben sich in Zeit- bzw. Bogensekunden. Das in eckige Klammern gesetzte Glied $0.0003\,i\sin\delta\Delta\delta'$ in der Formel für $(d\Delta\delta)_2$ beträgt für $\Delta\delta' = 10'$ im Maximum $0''.02$ und kann daher in den meisten Fällen unberücksichtigt bleiben.

Reduktionsgrößen 1932

δ	$\frac{1}{15}$ tg δ	$\frac{1}{225}$ sec² δ	$\frac{1}{15}$ sec δ	$\frac{1}{225}$ tg δ sec δ	sin δ	$\frac{1}{15}$ cos δ	tg δ	$\frac{1}{15}$ sec² δ	δ
0°	0.000	0.004	0.067	0.000	0.00	0.07	0.00	0.07	0°
5	0.006	0.004	0.067	0.000	0.09	0.07	0.09	0.07	5
10	0.012	0.005	0.068	0.001	0.17	0.07	0.18	0.07	10
15	0.018	0.005	0.069	0.001	0.26	0.06	0.27	0.07	15
20	0.024	0.005	0.071	0.002	0.34	0.06	0.36	0.08	20
25	0.031	0.005	0.074	0.002	0.42	0.06	0.47	0.08	25
30	0.038	0.006	0.077	0.003	0.50	0.06	0.58	0.09	30
35	0.047	0.007	0.081	0.004	0.57	0.05	0.70	0.10	35
40	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40
40°	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40°
42	0.060	0.008	0.090	0.005	0.67	0.05	0.90	0.12	42
44	0.064	0.009	0.093	0.006	0.69	0.05	0.97	0.13	44
46	0.069	0.009	0.096	0.007	0.72	0.05	1.04	0.14	46
48	0.074	0.010	0.100	0.007	0.74	0.04	1.11	0.15	48
50	0.079	0.011	0.104	0.008	0.77	0.04	1.19	0.16	50
52	0.085	0.012	0.108	0.009	0.79	0.04	1.28	0.18	52
54	0.092	0.013	0.113	0.010	0.81	0.04	1.38	0.19	54
56	0.099	0.014	0.119	0.012	0.83	0.04	1.48	0.21	56
58	0.107	0.016	0.126	0.013	0.85	0.04	1.60	0.24	58
60	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60
60°	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60°
61	0.120	0.019	0.138	0.017	0.87	0.03	1.80	0.28	61
62	0.125	0.020	0.142	0.018	0.88	0.03	1.88	0.30	62
63	0.131	0.022	0.147	0.019	0.89	0.03	1.96	0.32	63
64	0.137	0.023	0.152	0.021	0.90	0.03	2.05	0.35	64
65	0.143	0.025	0.158	0.023	0.91	0.03	2.14	0.37	65
66	0.150	0.027	0.164	0.025	0.91	0.03	2.25	0.40	66
67	0.157	0.029	0.171	0.027	0.92	0.03	2.36	0.44	67
68	0.165	0.032	0.178	0.029	0.93	0.02	2.48	0.48	68
69	0.174	0.035	0.186	0.032	0.93	0.02	2.61	0.52	69
70	0.183	0.038	0.195	0.036	0.94	0.02	2.75	0.57	70
71	0.194	0.042	0.205	0.040	0.95	0.02	2.90	0.63	71
72	0.205	0.047	0.216	0.044	0.95	0.02	3.08	0.70	72
73	0.218	0.052	0.228	0.050	0.96	0.02	3.27	0.78	73
74	0.232	0.058	0.242	0.056	0.96	0.02	3.49	0.88	74
75	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75
75°.0	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75°.0
75.5	0.258	0.071	0.266	0.069	0.97	0.02	3.87	1.06	75.5
76.0	0.267	0.076	0.276	0.074	0.97	0.02	4.01	1.14	76.0
76.5	0.278	0.082	0.286	0.079	0.97	0.02	4.17	1.22	76.5
77.0	0.289	0.088	0.296	0.086	0.97	0.01	4.33	1.32	77.0
77.5	0.301	0.095	0.308	0.093	0.98	0.01	4.51	1.42	77.5
78.0	0.314	0.103	0.321	0.101	0.98	0.01	4.70	1.54	78.0
78.5	0.328	0.112	0.334	0.110	0.98	0.01	4.92	1.68	78.5
79.0	0.343	0.122	0.349	0.120	0.98	0.01	5.14	1.83	79.0
79.5	0.360	0.134	0.366	0.132	0.98	0.01	5.40	2.01	79.5
80.0	0.378	0.147	0.384	0.145	0.98	0.01	5.67	2.21	80.0

	0h	1h	2h	3h	4h	5h	
0m	0.000	0.259	0.500	0.707	0.866	0.966	60
1	0.004	0.263	0.504	0.710	0.868	0.967	59
2	0.009	0.267	0.508	0.713	0.870	0.968	58
3	0.013	0.271	0.511	0.716	0.872	0.969	57
4	0.017	0.276	0.515	0.719	0.875	0.970	56
5	0.022	0.280	0.519	0.722	0.877	0.971	55
6	0.026	0.284	0.522	0.725	0.879	0.972	54
7	0.031	0.288	0.526	0.728	0.881	0.973	53
8	0.035	0.292	0.530	0.731	0.883	0.974	52
9	0.039	0.297	0.534	0.734	0.885	0.975	51
10	0.044	0.301	0.537	0.737	0.887	0.976	50
11	0.048	0.305	0.541	0.740	0.889	0.977	49
12	0.052	0.309	0.545	0.743	0.891	0.978	48
13	0.057	0.313	0.548	0.746	0.893	0.979	47
14	0.061	0.317	0.552	0.749	0.895	0.980	46
15	0.065	0.321	0.556	0.752	0.897	0.981	45
16	0.070	0.326	0.559	0.755	0.899	0.982	44
17	0.074	0.330	0.563	0.758	0.901	0.982	43
18	0.078	0.334	0.566	0.760	0.903	0.983	42
19	0.083	0.338	0.570	0.763	0.904	0.984	41
20	0.087	0.342	0.574	0.766	0.906	0.985	40
21	0.092	0.346	0.577	0.769	0.908	0.986	39
22	0.096	0.350	0.581	0.772	0.910	0.986	38
23	0.100	0.354	0.584	0.774	0.912	0.987	37
24	0.105	0.358	0.588	0.777	0.914	0.988	36
25	0.109	0.362	0.591	0.780	0.915	0.988	35
26	0.113	0.367	0.595	0.783	0.917	0.989	34
27	0.118	0.371	0.598	0.785	0.919	0.990	33
28	0.122	0.375	0.602	0.788	0.921	0.990	32
29	0.126	0.379	0.605	0.791	0.922	0.991	31
30	0.131	0.383	0.609	0.793	0.924	0.991	30
31	0.135	0.387	0.612	0.796	0.926	0.992	29
32	0.139	0.391	0.616	0.799	0.927	0.993	28
33	0.143	0.395	0.619	0.801	0.929	0.993	27
34	0.148	0.399	0.623	0.804	0.930	0.994	26
35	0.152	0.403	0.626	0.806	0.932	0.994	25
36	0.156	0.407	0.629	0.809	0.934	0.995	24
37	0.161	0.411	0.633	0.812	0.935	0.995	23
38	0.165	0.415	0.636	0.814	0.937	0.995	22
39	0.169	0.419	0.639	0.817	0.938	0.996	21
40	0.174	0.423	0.643	0.819	0.940	0.996	20
41	0.178	0.427	0.646	0.822	0.941	0.997	19
42	0.182	0.431	0.649	0.824	0.943	0.997	18
43	0.187	0.434	0.653	0.827	0.944	0.997	17
44	0.191	0.438	0.656	0.829	0.946	0.998	16
45	0.195	0.442	0.659	0.831	0.947	0.998	15
46	0.199	0.446	0.663	0.834	0.948	0.998	14
47	0.204	0.450	0.666	0.836	0.950	0.998	13
48	0.208	0.454	0.669	0.839	0.951	0.999	12
49	0.212	0.458	0.672	0.841	0.952	0.999	11
50	0.216	0.462	0.676	0.843	0.954	0.999	10
51	0.221	0.466	0.679	0.846	0.955	0.999	9
52	0.225	0.469	0.682	0.848	0.956	0.999	8
53	0.229	0.473	0.685	0.850	0.958	1.000	7
54	0.233	0.477	0.688	0.853	0.959	1.000	6
55	0.238	0.481	0.692	0.855	0.960	1.000	5
56	0.242	0.485	0.695	0.857	0.961	1.000	4
57	0.246	0.489	0.698	0.859	0.962	1.000	3
58	0.250	0.492	0.701	0.862	0.964	1.000	2
59	0.255	0.496	0.704	0.864	0.965	1.000	1
60	0.259	0.500	0.707	0.866	0.966	1.000	0m
	5h	4h	3h	2h	1h	0h	

Cosinus

Reduktionsgrößen 1932

Übertragung von Rektaszensions- und Deklinationsdifferenzen von dem mittleren Äquinoktium 1932.0 auf das Normaläquinoktium 1925.0

α	a_1	a_2	d_1	α	α	a_1	a_2	d_1	α
^{h} ^{m}	^{s}	^{s}	″	^{h} ^{m}	^{h} ^{m}	^{s}	^{s}	″	^{h} ^{m}
0 0	−0.0408−	−0.0000+	+0.000−	24 0	6 0	+0.0000+	−0.0408+	+0.612−	18 0
10	408	18	027	50	10	18	408	612	50
20	407	36	054	40	20	36	407	610	40
30	405	53	080	30	30	53	405	607	30
40	402	71	106	20	40	71	402	603	20
50	398	88	132	10	50	88	398	598	10
1 0	−0.0394−	−0.0106+	+0.159−	23 0	7 0	+0.0106+	−0.0394+	+0.591−	17 0
10	389	122	184	50	10	122	389	584	50
20	383	139	209	40	20	139	383	575	40
30	377	156	234	30	30	156	377	566	30
40	370	173	259	20	40	173	370	555	20
50	362	188	283	10	50	188	362	543	10
2 0	−0.0353−	−0.0204+	+0.306−	22 0	8 0	+0.0204+	−0.0353+	+0.530−	16 0
10	344	219	329	50	10	219	344	516	50
20	334	234	351	40	20	234	334	502	40
30	324	248	373	30	30	248	324	486	30
40	313	262	394	20	40	262	313	469	20
50	301	276	414	10	50	276	301	451	10
3 0	−0.0289−	−0.0289+	+0.433−	21 0	9 0	+0.0289+	−0.0289+	+0.433−	15 0
10	276	301	451	50	10	301	276	414	50
20	262	313	469	40	20	313	262	394	40
30	248	324	486	30	30	324	248	373	30
40	234	334	502	20	40	334	234	351	20
50	219	344	516	10	50	344	219	329	10
4 0	−0.0204−	−0.0353+	+0.530−	20 0	10 0	+0.0353+	−0.0204+	+0.306−	14 0
10	188	362	543	50	10	362	188	283	50
20	173	370	555	40	20	370	173	259	40
30	156	377	566	30	30	377	156	234	30
40	139	383	575	20	40	383	139	209	20
50	122	389	584	10	50	389	122	184	10
5 0	−0.0106−	−0.0394+	+0.591−	19 0	11 0	+0.0394+	−0.0106+	+0.159−	13 0
10	088	398	598	50	10	398	088	132	50
20	071	402	603	40	20	402	071	106	40
30	053	405	607	30	30	405	053	080	30
40	036	407	610	20	40	407	036	054	20
50	018	408	612	10	50	408	018	027	10
6 0	−0.0000−	−0.0408+	+0.612−	18 0	12 0	+0.0408+	−0.0000+	+0.000−	12 0

Für α zwischen 12^{h} und 24^{h} gelten die Vorzeichen zur Rechten.

$$\Delta p_\alpha^{\mathrm{s}} = a_1 \cdot \operatorname{tg}\delta \cdot \Delta\alpha^{\mathrm{m}} + a_2 \cdot \tfrac{1}{15} \sec^2\delta \cdot \Delta\delta'; \qquad \Delta p_\delta'' = d_1 \cdot \Delta\alpha^{\mathrm{m}}$$

$\Delta\alpha^{\mathrm{m}}$ bedeutet die Rektaszensionsdifferenz in Zeitminuten, $\Delta\delta'$ ist die Deklinationsdifferenz in Bogenminuten.

Die Werte von $\operatorname{tg}\delta$ und $\frac{1}{15}\sec^2\delta$ sind auf S. 268* enthalten.

Reduktionsgrößen 1932

Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium

0^h Welt-Zeit		f	log g	G
1932		s		h m s
Jan.	−2	+21.489	2.14747	23 46 0
	+2	21.537	2.14845	23 45 59
	6	21.585	2.14943	23 45 58
	10	21.633	2.15038	23 45 56
	14	21.679	2.15131	23 45 52
	18	+21.724	2.15222	23 45 48
	22	21.768	2.15311	23 45 44
	26	21.811	2.15397	23 45 39
	30	21.852	2.15480	23 45 33
Febr.	3	21.891	2.15560	23 45 27
	7	+21.929	2.15636	23 45 22
	11	21.965	2.15709	23 45 16
	15	22.000	2.15779	23 45 10
	19	22.033	2.15846	23 45 5
	23	22.065	2.15910	23 45 0
	27	+22.096	2.15971	23 44 56
März	2	22.126	2.16029	23 44 52
	6	22.155	2.16086	23 44 49
	10	22.183	2.16142	23 44 48
	14	22.210	2.16196	23 44 47
	18	+22.237	2.16249	23 44 47
	22	22.264	2.16301	23 44 48
	26	22.291	2.16353	23 44 50
	30	22.318	2.16405	23 44 53
April	3	22.346	2.16458	23 44 57
	7	+22.374	2.16512	23 45 2
	11	22.403	2.16567	23 45 8
	15	22.433	2.16624	23 45 14
	19	22.464	2.16683	23 45 21
	23	22.496	2.16743	23 45 29
	27	+22.530	2.16806	23 45 37
Mai	1	22.565	2.16872	23 45 45
	5	22.601	2.16940	23 45 54
	9	22.639	2.17011	23 46 2
	13	+22.678	2.17084	23 46 11

0^h Welt-Zeit		f	log g	G
1932		s		h m s
Mai	13	+22.678	2.17084	23 46 11
	17	22.718	2.17159	23 46 19
	21	22.759	2.17236	23 46 27
	25	22.802	2.17315	23 46 34
	29	22.846	2.17397	23 46 41
Juni	2	+22.890	2.17481	23 46 47
	6	22.936	2.17566	23 46 53
	10	22.982	2.17652	23 46 58
	14	23.028	2.17739	23 47 2
	18	23.075	2.17827	23 47 5
	22	+23.122	2.17915	23 47 7
	26	23.169	2.18003	23 47 9
	30	23.215	2.18091	23 47 10
Juli	4	23.262	2.18177	23 47 10
	8	23.308	2.18263	23 47 9
	12	+23.353	2.18347	23 47 7
	16	23.397	2.18429	23 47 5
	20	23.440	2.18510	23 47 2
	24	23.482	2.18589	23 46 58
	28	23.523	2.18665	23 46 54
Aug.	1	+23.563	2.18739	23 46 50
	5	23.602	2.18811	23 46 46
	9	23.639	2.18880	23 46 41
	13	23.675	2.18947	23 46 37
	17	23.710	2.19012	23 46 32
	21	+23.743	2.19074	23 46 28
	25	23.775	2.19133	23 46 24
	29	23.806	2.19190	23 46 21
Sept.	2	23.836	2.19245	23 46 18
	6	23.865	2.19298	23 46 15
	10	+23.893	2.19350	23 46 14
	14	23.921	2.19400	23 46 13
	18	23.948	2.19449	23 46 13
	22	23.975	2.19498	23 46 14
	26	+24.001	2.19546	23 46 15

Reduktionsgrößen 1932

Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium

0h Welt-Zeit	f	log g	G	0h Welt-Zeit	f	log g	G
1932				1932			
	s		h m s		s		h m s
Sept. 26	+24.001	2.19546	23 46 15	Nov. 13	+24.382	2.20215	23 47 33
30	24.028	2.19594	23 46 18	17	24.423	2.20286	23 47 41
Okt. 4	24.055	2.19642	23 46 22	21	24.465	2.20359	23 47 50
8	24.083	2.19691	23 46 26	25	24.508	2.20435	23 47 58
12	24.112	2.19741	23 46 31	29	24.553	2.20513	23 48 5
16	+24.141	2.19793	23 46 37	Dez. 3	+24.599	2.20593	23 48 12
20	24.172	2.19847	23 46 44	7	24.645	2.20675	23 48 18
24	24.203	2.19903	23 46 51	11	24.693	2.20758	23 48 23
28	24.236	2.19960	23 46 59	15	24.741	2.20842	23 48 27
Nov. 1	24.270	2.20020	23 47 7	19	24.790	2.20927	23 48 31
5	+24.306	2.20082	23 47 16	23	+24.839	2.21013	23 48 33
9	24.343	2.20147	23 47 24	27	24.888	2.21098	23 48 35
13	+24.382	2.20215	23 47 33	31	+24.936	2.21182	23 48 35

Die mit den vorstehend gegebenen Größen f, log g und G berechnete Reduktion vom mittleren Äquinoktium 1925.0 auf das wahre Äquinoktium der Epoche bedarf noch einer Verbesserung, die von dem Einfluß der Variatio saecularis herrührt und auf S. 273* enthalten ist. Es wird somit:

$$\text{Red. in } \alpha = f + {}^1\!/_{15}\, g \sin(G+\alpha) \operatorname{tg} \delta + \text{Korr. nach S. 273*}$$
$$\text{Red. in } \delta = g \cos(G+\alpha) + \text{Korr. nach S. 273*}$$

Korrektion der Reduktion vom mittleren Äquinoktium 1925.0 auf das jedesmalige wahre Äquinoktium (s. S. 271*—272*), berechnet für 1932.0, mit Hinzufügung ihrer einjährigen Änderung.

α	δ +60°	δ +50°	δ +30°	δ +10°	δ −10°	δ −30°	δ −50°	δ −60°
Für Rektaszension (in 0s.001)								
0h	+13 +4	+9 +3	+5 +1	+2 0	−1 0	−4 −1	−8 −2	−12 −3
1	+18 +5	+12 +3	+6 +2	+3 +1	0 0	−2 −1	−5 −1	−6 −2
2	+21 +6	+13 +4	+6 +2	+3 +1	+1 0	−1 0	−2 0	−1 0
3	+20 +6	+13 +4	+6 +2	+3 +1	+1 0	0 0	+1 0	+3 +1
4	+16 +5	+10 +3	+5 +1	+3 +1	+1 0	+1 0	+2 0	+4 +1
5	+9 +3	+6 +2	+3 +1	+2 0	+1 0	+1 0	+1 0	+3 +1
6	0 0	0 0	0 0	0 0	0 0	+1 0	+1 0	+1 0
7	−9 −2	−5 −1	−2 −1	−1 0	0 0	0 0	0 0	−2 0
8	−16 −4	−9 −3	−4 −1	−2 0	0 0	0 0	0 0	−3 −1
9	−20 −6	−12 −3	−5 −1	−2 −1	0 0	+1 0	+1 0	−2 0
10	−20 −6	−12 −4	−6 −2	−2 −1	0 0	+2 +1	+3 +1	+2 +1
11	−17 −5	−11 −3	−5 −1	−2 0	+1 0	+3 +1	+6 +2	+7 +2
12	−12 −3	−8 −2	−4 −1	−1 0	+2 0	+5 +1	+9 +3	+13 +4
13	−6 −2	−5 −1	−2 −1	0 0	+3 +1	+6 +2	+12 +3	+18 +5
14	−1 0	−2 0	−1 0	+1 0	+3 +1	+6 +2	+13 +4	+21 +6
15	+3 +1	+1 0	0 0	+1 0	+3 +1	+6 +2	+13 +4	+20 +6
16	+4 +1	+2 0	+1 0	+1 0	+3 +1	+5 +1	+10 +3	+16 +5
17	+3 +1	+1 0	+1 0	+1 0	+2 0	+3 +1	+6 +2	+9 +3
18	+1 0	+1 0	+1 0	0 0	0 0	0 0	0 0	0 0
19	−2 0	0 0	0 0	0 0	−1 0	−2 −1	−5 −1	−9 −2
20	−3 −1	0 0	0 0	0 0	−2 0	−4 −1	−9 −3	−16 −4
21	−2 0	+1 0	+1 0	0 0	−2 −1	−5 −1	−12 −3	−20 −6
22	+2 +1	+3 +1	+2 +1	0 0	−2 −1	−6 −2	−12 −4	−20 −6
23	+7 +2	+6 +2	+3 +1	+1 0	−2 0	−5 −1	−11 −3	−17 −5
24	+13 +4	+9 +3	+5 +1	+2 0	−1 0	−4 −1	−8 −2	−12 −3
Für Deklination (in 0".01)								
0h	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
1	−4 −1	−3 −1	−3 −1	−3 −1	−3 −1	−3 −1	−3 −1	−2 −1
2	−8 −2	−7 −2	−6 −2	−6 −2	−5 −2	−5 −1	−4 −1	−4 −1
3	−12 −3	−11 −3	−9 −3	−8 −2	−7 −2	−7 −2	−5 −1	−4 −1
4	−16 −5	−14 −4	−12 −3	−10 −3	−9 −3	−8 −2	−5 −2	−3 −1
5	−18 −5	−16 −5	−13 −4	−11 −3	−10 −3	−8 −2	−5 −2	−3 −1
6	−19 −5	−17 −5	−14 −4	−12 −3	−10 −3	−8 −2	−5 −2	−3 −1
7	−18 −5	−16 −5	−13 −4	−11 −3	−10 −3	−8 −2	−5 −2	−3 −1
8	−16 −4	−14 −4	−11 −3	−10 −3	−9 −3	−7 −2	−5 −1	−3 −1
9	−12 −3	−10 −3	−9 −3	−8 −2	−7 −2	−6 −2	−5 −1	−3 −1
10	−7 −2	−7 −2	−6 −2	−6 −2	−5 −1	−5 −1	−4 −1	−3 −1
11	−3 −1	−3 −1	−3 −1	−3 −1	−3 1	−2 −1	−2 −1	−2 −1
12	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
13	+2 +1	+3 +1	+3 +1	+3 +1	+3 +1	+3 +1	+3 +1	+4 +1
14	+4 +1	+4 +1	+5 +1	+5 +2	+6 +2	+6 +2	+7 +2	+8 +2
15	+4 +1	+5 +1	+7 +2	+7 +2	+8 +2	+9 +3	+11 +3	+12 +3
16	+3 +1	+5 +2	+8 +2	+9 +3	+10 +3	+12 +3	+14 +4	+16 +5
17	+3 +1	+5 +2	+8 +2	+10 +3	+11 +3	+13 +4	+16 +5	+18 +5
18	+3 +1	+5 +2	+8 +2	+10 +3	+12 +3	+14 +4	+17 +5	+19 +5
19	+3 +1	+5 +2	+8 +2	+10 +3	+11 +3	+13 +4	+16 +5	+18 +5
20	+3 +1	+5 +1	+7 +2	+9 +3	+10 +3	+11 +3	+14 +4	+16 +4
21	+3 +1	+5 +1	+6 +2	+7 +2	+8 +2	+9 +3	+10 +3	+12 +3
22	+3 +1	+4 +1	+5 +1	+5 +1	+6 +2	+6 +2	+7 +2	+7 +2
23	+2 +1	+2 +1	+2 +1	+3 +1	+3 +1	+3 +1	+3 +1	+3 +1
24	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0

α	$0^h, 12^h$		$1^h, 13^h$		$2^h, 14^h$		$3^h, 15^h$		$4^h, 16^h$		$5^h, 17^h$		α
	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	$-A_1+$	$-D+$	
m	s	″	s	″	s	″	s	″	s	″	s	″	m
0		140.31	2.414	135.56	4.671	121.57	6.609	99.29	8.097	70.25	9.033	36.42	0
1	0.034	140.31	453	135.40	706	121.26	638	98.86	117	69.72	044	35.83	1
2	075	140.30	493	135.24	741	120.95	667	98.42	137	69.19	054	35.24	2
3	115	140.30	532	135.07	776	120.64	695	97.98	157	68.65	064	34.64	3
4	156	140.29	572	134.91	811	120.33	724	97.54	177	68.12	074	34.05	4
5	197	140.28	611	134.74	846	120.01	752	97.10	197	67.58	084	33.46	5
6	238	140.26	650	134.57	881	119.69	780	96.66	217	67.04	094	32.86	6
7	279	140.24	689	134.39	916	119.37	808	96.21	236	66.50	103	32.27	7
8	319	140.22	728	134.21	951	119.04	836	95.77	256	65.96	113	31.67	8
9	360	140.20	767	134.03	4.986	118.72	864	95.32	275	65.42	122	31.08	9
10	0.401	140.18	2.806	133.85	5.020	118.39	6.892	94.87	8.294	64.88	9.131	30.48	10
11	442	140.15	845	133.66	055	118.06	920	94.42	313	64.34	140	29.88	11
12	482	140.12	884	133.47	089	117.73	947	93.96	331	63.80	148	29.28	12
13	523	140.09	922	133.28	123	117.39	6.974	93.51	350	63.25	157	28.68	13
14	563	140.06	2.961	133.09	157	117.06	7.001	93.05	368	62.71	165	28.08	14
15	604	140.02	3.000	132.90	191	116.72	028	92.59	386	62.16	173	27.48	15
16	645	139.98	038	132.70	225	116.38	055	92.13	404	61.61	181	26.88	16
17	686	139.93	077	132.50	259	116.04	082	91.67	422	61.06	189	26.28	17
18	726	139.89	115	132.29	292	115.69	108	91.20	439	60.51	196	25.67	18
19	767	139.84	154	132.09	326	115.35	135	90.74	457	59.96	204	25.07	19
20	0.808	139.79	3.192	131.88	5.359	115.00	7.161	90.27	8.474	59.40	9.211	24.47	20
21	849	139.73	230	131.67	393	114.65	187	89.80	491	58.85	218	23.87	21
22	889	139.67	268	131.46	426	114.29	213	89.33	508	58.29	225	23.26	22
23	930	139.61	307	131.24	459	113.94	239	88.86	525	57.73	231	22.66	23
24	0.970	139.55	345	131.03	492	113.58	265	88.39	542	57.17	238	22.05	24
25	1.011	139.49	383	130.81	525	113.22	290	87.91	559	56.61	244	21.45	25
26	052	139.42	421	130.59	558	112.86	316	87.43	575	56.05	250	20.84	26
27	092	139.35	459	130.36	590	112.49	341	86.95	591	55.49	256	20.24	27
28	133	139.27	497	130.13	623	112.12	366	86.47	607	54.92	262	19.63	28
29	173	139.20	535	129.90	655	111.75	391	85.99	623	54.36	268	19.03	29
30	1.214	139.12	3.573	129.67	5.688	111.38	7.416	85.50	8.639	53.79	9.273	18.42	30
31	254	139.04	611	129.43	721	111.01	441	85.01	655	53.22	278	17.81	31
32	295	138.95	648	129.19	753	110.63	466	84.52	670	52.65	283	17.20	32
33	335	138.87	686	128.95	785	110.25	490	84.03	685	52.09	288	16.60	33
34	376	138.78	723	128.71	817	109.87	515	83.54	700	51.52	293	15.99	34
35	416	138.69	761	128.47	849	109.49	539	83.05	715	50.95	298	15.38	35
36	456	138.60	798	128.22	881	109.11	563	82.56	730	50.38	302	14.77	36
37	496	138.50	835	127.97	913	108.72	587	82.06	744	49.81	306	14.16	37
38	537	138.40	873	127.72	944	108.33	611	81.57	759	49.23	310	13.56	38
39	577	138.30	910	127.47	5.976	107.94	635	81.07	773	48.66	314	12.95	39
40	1.617	138.20	3.947	127.21	6.007	107.55	7.658	80.57	8.787	48.09	9.318	12.34	40
41	657	138.09	3.984	126.95	038	107.16	681	80.07	801	47.51	321	11.73	41
42	697	137.98	4.021	126.69	069	106.76	704	79.56	815	46.93	324	11.12	42
43	738	137.86	057	126.42	100	106.36	727	79.06	828	46.36	327	10.51	43
44	778	137.75	094	126.16	131	105.96	750	78.55	842	45.78	330	9.90	44
45	818	137.63	131	125.89	162	105.56	773	78.04	855	45.20	333	9.29	45
46	858	137.51	167	125.62	193	105.16	796	77.53	868	44.62	336	8.68	46
47	898	137.38	204	125.34	223	104.75	818	77.02	881	44.04	338	8.07	47
48	937	137.26	240	125.07	254	104.34	841	76.51	894	43.46	341	7.45	48
49	1.977	137.13	277	124.79	284	103.93	863	76.00	907	42.88	343	6.84	49
50	2.017	137.00	4.313	124.51	6.314	103.52	7.885	75.48	8.919	42.30	9.345	6.23	50
51	057	136.87	349	124.23	344	103.11	907	74.96	931	41.71	347	5.62	51
52	097	136.73	385	123.94	374	102.69	929	74.44	943	41.13	348	5.01	52
53	136	136.59	421	123.65	404	102.27	950	73.92	955	40.54	350	4.39	53
54	176	136.45	457	123.36	434	101.85	972	73.40	967	39.96	351	3.78	54
55	216	136.31	493	123.07	463	101.43	7.993	72.88	978	39.37	352	3.17	55
56	256	136.16	529	122.77	493	101.01	8.014	72.36	8.989	38.78	353	2.56	56
57	295	136.01	565	122.47	522	100.58	035	71.83	9.000	38.19	353	1.95	57
58	335	135.86	600	122.17	551	100.15	056	71.31	011	37.60	354	1.33	58
59	374	135.71	636	121.87	580	99.72	077	70.78	022	37.01	354	0.72	59
60	2.414	135.56	4.671	121.57	6.609	99.29	8.097	70.25	9.033	36.42	9.354	0.11	60

α	6^h, 18^h		7^h, 19^h		8^h, 20^h		9^h, 21^h		10^h, 22^h		11^h, 23^h		α
m	$-A_1+$	$+D-$	$-A_1+$	$+D-$	$-A_1+$	$+D-$	$-A_1+$	$+D-$	$-A_1+$	$+D-$	$-A_1+$	$+D-$	m
	s	″	s	″	s	″	s	″	s	″	s	″	
0	9.354		9.037	36.21	8.104	70.06	6.619	99.13	4.683	121.46	2.428	135.50	0
1	354	0.50	026	36.80	084	70.59	590	99.56	648	121.76	389	135.66	1
2	354	1.11	015	37.39	063	71.12	561	99.99	612	122.06	349	135.81	2
3	353	1.73	9.004	37.98	043	71.64	532	100.42	577	122.36	310	135.96	3
4	353	2.34	8.993	38.57	022	72.17	503	100.85	541	122.66	270	136.11	4
5	352	2.95	982	39.16	8.001	72.69	474	101.28	505	122.96	230	136.26	5
6	351	3.56	971	39.75	7.980	73.21	445	101.70	470	123.25	191	136.40	6
7	350	4.17	959	40.33	958	73.73	415	102.12	434	123.54	151	136.54	7
8	348	4.79	947	40.92	937	74.25	385	102.54	398	123.83	112	136.68	8
9	347	5.40	935	41.50	915	74.77	355	102.96	362	124.12	072	136.82	9
10	9.345	6.01	8.923	42.09	7.893	75.29	6.325	103.37	4.326	124.40	2.032	136.96	10
11	343	6.62	911	42.67	871	75.81	295	103.78	290	124.68	1.992	137.09	11
12	341	7.23	898	43.25	849	76.32	265	104.19	254	124.96	952	137.22	12
13	339	7.85	886	43.84	826	76.84	234	104.60	217	125.24	912	137.34	13
14	337	8.46	873	44.42	804	77.35	204	105.01	181	125.52	872	137.47	14
15	334	9.07	860	45.00	781	77.86	173	105.42	144	125.79	832	137.59	15
16	331	9.68	847	45.58	758	78.37	142	105.82	108	126.06	792	137.71	16
17	328	10.29	833	46.16	735	78.88	111	106.22	071	126.33	752	137.82	17
18	325	10.90	820	46.73	712	79.38	080	106.62	4.034	126.59	712	137.94	18
19	322	11.51	806	47.31	689	79.89	049	107.02	3.997	126.86	672	138.05	19
20	9.319	12.12	8.792	47.89	7.666	80.39	6.018	107.41	3.960	127.12	1.631	138.16	20
21	315	12.73	778	48.46	643	80.89	5.987	107.80	923	127.38	591	138.26	21
22	311	13.34	764	49.03	619	81.39	956	108.19	886	127.63	551	138.36	22
23	307	13.95	750	49.61	596	81.89	924	108.58	849	127.88	511	138.46	23
24	303	14.56	736	50.18	572	82.39	893	108.97	812	128.13	471	138.56	24
25	299	15.17	721	50.75	548	82.88	861	109.36	774	128.38	430	138.66	25
26	295	15.78	706	51.32	524	83.37	829	109.74	737	128.63	390	138.75	26
27	290	16.38	691	51.89	500	83.86	797	110.12	699	128.87	350	138.84	27
28	285	16.99	676	52.45	475	84.35	765	110.50	662	129.11	309	138.92	28
29	280	17.59	661	53.02	451	84.84	733	110.88	624	129.35	269	139.01	29
30	9.275	18.20	8.645	53.59	7.426	85.33	5.700	111.25	3.586	129.59	1.228	139.09	30
31	270	18.81	629	54.16	401	85.82	668	111.62	549	129.82	188	139.17	31
32	264	19.42	613	54.72	376	86.30	635	111.99	511	130.05	148	139.24	32
33	258	20.02	597	55.29	351	86.78	603	112.36	473	130.28	107	139.32	33
34	252	20.63	581	55.85	326	87.26	570	112.73	435	130.51	067	139.39	34
35	246	21.24	565	56.41	300	87.74	537	113.09	397	130.73	1.026	139.46	35
36	240	21.84	549	56.97	274	88.22	504	113.45	359	130.95	0.986	139.52	36
37	233	22.45	532	57.53	248	88.69	471	113.81	321	131.17	945	139.58	37
38	227	23.05	515	58.09	222	89.17	438	114.16	283	131.38	905	139.64	38
39	220	23.66	498	58.65	196	89.64	405	114.52	245	131.60	864	139.70	39
40	9.213	24.26	8.481	59.20	7.170	90.11	5.371	114.87	3.206	131.81	0.823	139.76	40
41	206	24.86	464	59.76	144	90.58	338	115.22	168	132.02	783	139.81	41
42	199	25.46	446	60.31	117	91.04	304	115.57	130	132.22	742	139.86	42
43	191	26.07	428	60.86	091	91.51	271	115.91	091	132.43	701	139.91	43
44	184	26.67	410	61.41	064	91.97	237	116.26	053	132.63	660	139.96	44
45	176	27.27	392	61.96	037	92.43	203	116.60	3.014	132.83	619	140.00	45
46	168	27.87	374	62.51	7.010	92.89	169	116.94	2.976	133.02	579	140.04	46
47	160	28.47	356	63.06	6.983	93.35	135	117.28	937	133.21	538	140.07	47
48	151	29.06	337	63.60	956	93.80	101	117.61	898	133.40	497	140.11	48
49	143	29.66	319	64.15	929	94.26	067	117.95	859	133.59	456	140.14	49
50	9.134	30.26	8.300	64.69	6.901	94.71	5.032	118.28	2.820	133.78	0.415	140.17	50
51	125	30.86	281	65.23	874	95.16	4.998	118.61	781	133.96	375	140.19	51
52	116	31.45	262	65.77	846	95.61	963	118.93	742	134.14	334	140.21	52
53	107	32.05	243	66.31	818	96.06	929	119.26	703	134.32	293	140.23	53
54	098	32.64	224	66.85	790	96.51	894	119.58	664	134.50	252	140.25	54
55	088	33.24	204	67.39	762	96.95	859	119.90	625	134.67	211	140.27	55
56	078	33.83	184	67.93	734	97.39	824	120.22	586	134.84	171	140.28	56
57	068	34.43	164	68.46	705	97.83	789	120.53	547	135.01	130	140.29	57
58	058	35.02	144	69.00	677	98.26	754	120.84	507	135.17	089	140.30	58
59	048	35.62	124	69.53	648	98.70	719	121.15	468	135.34	048	140.31	59
60	9.037	36.21	8.104	70.06	6.619	99.13	4.683	121.46	2.428	135.50	0.007	140.31	60

Reduktionsgrößen 1932

Übertragung von Sternörtern vom mittleren Äquinoktium 1932.0 auf das Normaläquinoktium 1925.0

α	A	A_2	D_1	α	α	A	A_2	D_1	α
h m	s	s	"	h m	h m	s	s	"	h
0 0	−21.510	+0.0000	−0.000	12 0	6 0	−21.510	−0.0000	−0.048	18 0
10	510	03	0	10	10	510	03	48	10
20	510	06	0	20	20	510	06	47	20
30	510	08	1	30	30	510	08	47	30
40	510	11	1	40	40	511	11	46	40
50	509	13	2	50	50	511	13	45	50
1 0	−21.509	+0.0016	−0.003	13 0	7 0	−21.511	−0.0016	−0.045	19 0
10	509	18	4	10	10	511	18	43	10
20	509	20	6	20	20	511	20	42	20
30	509	22	7	30	30	511	22	41	30
40	509	24	8	40	40	511	24	39	40
50	509	26	10	50	50	511	26	38	50
2 0	−21.509	+0.0028	−0.012	14 0	8 0	−21.511	−0.0028	−0.036	20 0
10	509	29	14	10	10	512	29	34	10
20	509	30	16	20	20	512	30	32	20
30	509	31	18	30	30	512	31	30	30
40	509	31	20	40	40	512	31	28	40
50	508	32	22	50	50	512	32	26	50
3 0	−21.508	+0.0032	−0.024	15 0	9 0	−21.512	−0.0032	−0.024	21 0
10	508	32	26	10	10	512	32	22	10
20	509	31	28	20	20	512	31	20	20
30	509	31	30	30	30	512	31	18	30
40	509	30	32	40	40	512	30	16	40
50	509	29	34	50	50	512	29	14	50
4 0	−21.509	+0.0028	−0.036	16 0	10 0	−21.511	−0.0028	−0.012	22 0
10	509	26	38	10	10	511	26	10	10
20	509	24	39	20	20	511	24	8	20
30	509	22	41	30	30	511	22	7	30
40	509	20	42	40	40	511	20	6	40
50	509	18	43	50	50	511	18	4	50
5 0	−21.509	+0.0016	−0.045	17 0	11 0	−21.511	−0.0016	−0.003	23 0
10	509	13	45	10	10	511	13	2	10
20	510	11	46	20	20	511	11	1	20
30	510	08	47	30	30	510	08	1	30
40	510	06	47	40	40	510	06	0	40
50	510	03	48	50	50	510	03	0	50
6 0	−21.510	+0.0000	−0.048	18 0	12 0	−21.510	−0.0000	−0.000	24 0

$$\alpha_{1925} = \alpha_{1932} + A + A_1 \operatorname{tg} \delta_{1932} + A_2 \operatorname{tg}^2 \delta_{1932}$$
$$\delta_{1925} = \delta_{1932} + D + D_1 \operatorname{tg} \delta_{1932}$$

A_1 und D sind aus der Tafel (S. 274*/275*) mit dem Argument α_{1932} zu entnehmen; für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten.

Finsternisse, Sternbedeckungen, Mösting A, Trabanten

Konstellationen, Hilfstafeln

1932

Sonnen- und Mondfinsternisse 1932

Im Jahre 1932 finden zwei Sonnenfinsternisse und zwei Mondfinsternisse statt.

I. Ringförmige Sonnenfinsternis 1932 März 7 unsichtbar in Berlin.

Konjunktion in Rektaszension . . März 7, $6^h 53^m 43^s.7$ Welt-Zeit

Rektaszension des Mondes	$23^h 10^m 19^s.97$
Stündliche Änderung	1 47.99
Rektaszension der Sonne	23 10 19.97
Stündliche Änderung	9.26
Deklination des Mondes	$-6° 19' 46''.7$
Stündliche Änderung	+ 14 18.8
Deklination der Sonne	−5 19 43.6
Stündliche Änderung	+ 0 58.3
Äquatorialhorizontalparallaxe des Mondes .	$54' 41''.5$
» der Sonne . .	8.9
Halbmesser des Mondes	$14' 53''.4$
» der Sonne	16 6.7

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
Anfang der Finsternis	März 7, $5^h 31^m.0$	$2° 14'$	$-66° 14'$
Beginn der zentralen Verfinsterung	» 7 27.1	179 13	−74 37
Ende der zentralen Verfinsterung	» 8 24.2	207 31	−47 8
Ende der Finsternis	» 10 20.1	241 21	− 9 34

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. ringf. Verfinst.	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. ringf. Verfinst.
$7^h 27^m.1$	$179° 13'$	$-74° 37'$	—	$7^h 50^m$	$225° 2'.2$	$-63° 20'.6$	$5^m 18^s.7$
7 30	203 13.5	−74 14.5	5 8.6	8 0	225 17.0	−58 34.9	5 18.9
7 35	215 27.4	−71 25.3	5 13.2	8 10	223 5.3	−54 6.0	5 16.8
7 40	220 54.6	−68 35.0	5 15.9	8 20	217 13.8	−49 37.0	5 10.8
7 50	225 2.2	−63 20.6	5 18.7	8 24.2	207 31	−47 8	—

Die Finsternis ist sichtbar im Südlichen Eismeer, auf der Südspitze von Neu-Seeland, in Australien und im zentralen Teil des Indischen Archipels.

Elemente der ringförmigen Sonnenfinsternis 1932, März 7

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
5ʰ 30ᵐ	−0.62770	−1.44172	8.96942_n	9.99811	259° 41.5′	+0.56824	+0.02221
40	0.55273	1.40103	8.96921_n	9.99811	262 11.6	0.56826	0.02223
50	0.47776	1.36034	8.96900_n	9.99811	264 41.6	0.56828	0.02225
6 0	−0.40279	−1.31965	8.96879_n	9.99811	267 11.6	+0.56829	+0.02227
10	0.32782	1.27895	8.96858_n	9.99811	269 41.7	0.56831	0.02228
20	0.25285	1.23825	8.96837_n	9.99811	272 11.7	0.56833	0.02230
30	0.17789	1.19755	8.96816_n	9.99812	274 41.8	0.56835	0.02232
40	0.10292	1.15684	8.96795_n	9.99812	277 11.8	0.56836	0.02233
50	−0.02795	1.11613	8.96774_n	9.99812	279 41.8	0.56838	0.02235
7 0	+0.04701	−1.07542	8.96753_n	9.99812	282 11.9	+0.56839	+0.02236
10	0.12197	1.03471	8.96732_n	9.99812	284 41.9	0.56841	0.02238
20	0.19693	0.99399	8.96710_n	9.99812	287 11.9	0.56842	0.02239
30	0.27189	0.95326	8.96689_n	9.99813	289 42.0	0.56844	0.02241
40	0.34685	0.91254	8.96668_n	9.99813	292 12.0	0.56845	0.02242
50	0.42180	0.87181	8.96647_n	9.99813	294 42.0	0.56846	0.02243
8 0	+0.49675	−0.83108	8.96626_n	9.99813	297 12.1	+0.56847	+0.02244
10	0.57170	0.79034	8.96604_n	9.99813	299 42.1	0.56848	0.02245
20	0.64665	0.74960	8.96583_n	9.99814	302 12.2	0.56849	0.02246
30	0.72159	0.70886	8.96562_n	9.99814	304 42.2	0.56850	0.02247
40	0.79653	0.66811	8.96541_n	9.99814	307 12.2	0.56851	0.02248
50	0.87147	0.62737	8.96519_n	9.99814	309 42.3	0.56852	0.02249
9 0	+0.94640	−0.58662	8.96498_n	9.99814	312 12.3	+0.56853	+0.02250
10	1.02133	0.54586	8.96477_n	9.99815	314 42.3	0.56854	0.02251
20	1.09626	0.50510	8.96456_n	9.99815	317 12.4	0.56854	0.02251
30	1.17118	0.46434	8.96434_n	9.99815	319 42.4	0.56855	0.02252
40	1.24610	0.42358	8.96413_n	9.99815	322 12.4	0.56856	0.02253
50	1.32102	0.38282	8.96392_n	9.99815	324 42.5	0.56856	0.02253
10 0	+1.39593	−0.34205	8.96370_n	9.99815	327 12.5	+0.56857	+0.02254
10	1.47084	0.30128	8.96349_n	9.99816	329 42.6	0.56857	0.02254
20	1.54575	0.26050	8.96328_n	9.99816	332 12.6	0.56858	0.02255
30	+1.62065	−0.21972	8.96306_n	9.99816	334 42.6	+0.56858	+0.02255

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
5ʰ 0ᵐ	+0.007497	+0.004067	7.67315	7.67098
6 0	0.007497	0.004069	7.67315	7.67098
7 0	0.007496	0.004071	7.67314	7.67097
8 0	0.007495	0.004074	7.67314	7.67097
9 0	0.007493	0.004076	7.67313	7.67096
10 0	0.007491	0.004077	7.67313	7.67096
11 0	+0.007488	+0.004078	7.67312	7.67095

II. Partielle Mondfinsternis 1932 März 22 unsichtbar in Berlin.

Opposition in Rektaszension . . . März 22, $13^h\ 0^m\ 44^s.4$ Welt-Zeit

Rektaszension des Mondes	$12^h\ 6^m\ 14^s.23$
Stündliche Änderung	2 12.81
Rektaszension der Sonne	0 6 14.23
Stündliche Änderung	9.10
Deklination des Mondes	$-1°\ 15'\ 14''.4$
Stündliche Änderung	— 18 10.7
Deklination der Sonne	+0 40 34.8
Stündliche Änderung	+ 0 59.2
Äquatorialhorizontalparallaxe des Mondes .	$61'\ 6''.7$
» der Sonne . .	8.8
Halbmesser des Mondes	$16'\ 38''.3$
» der Sonne	16 2.7

Eintritt des Mondes in den Halbschatten	März 22,	$9^h\ 58^m.7$	Welt-Zeit
Eintritt des Mondes in den Kernschatten .	»	10 59.2	»
Mitte der Finsternis	»	12 32.2	»
Austritt des Mondes aus dem Kernschatten	»	14 5.2	»
Austritt des Mondes aus dem Halbschatten	»	15 5.6	»

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

164° 5′ westliche Länge von Greenwich, 0°38′ südliche Breite
209° 0′ » » » » 1°35′ » »

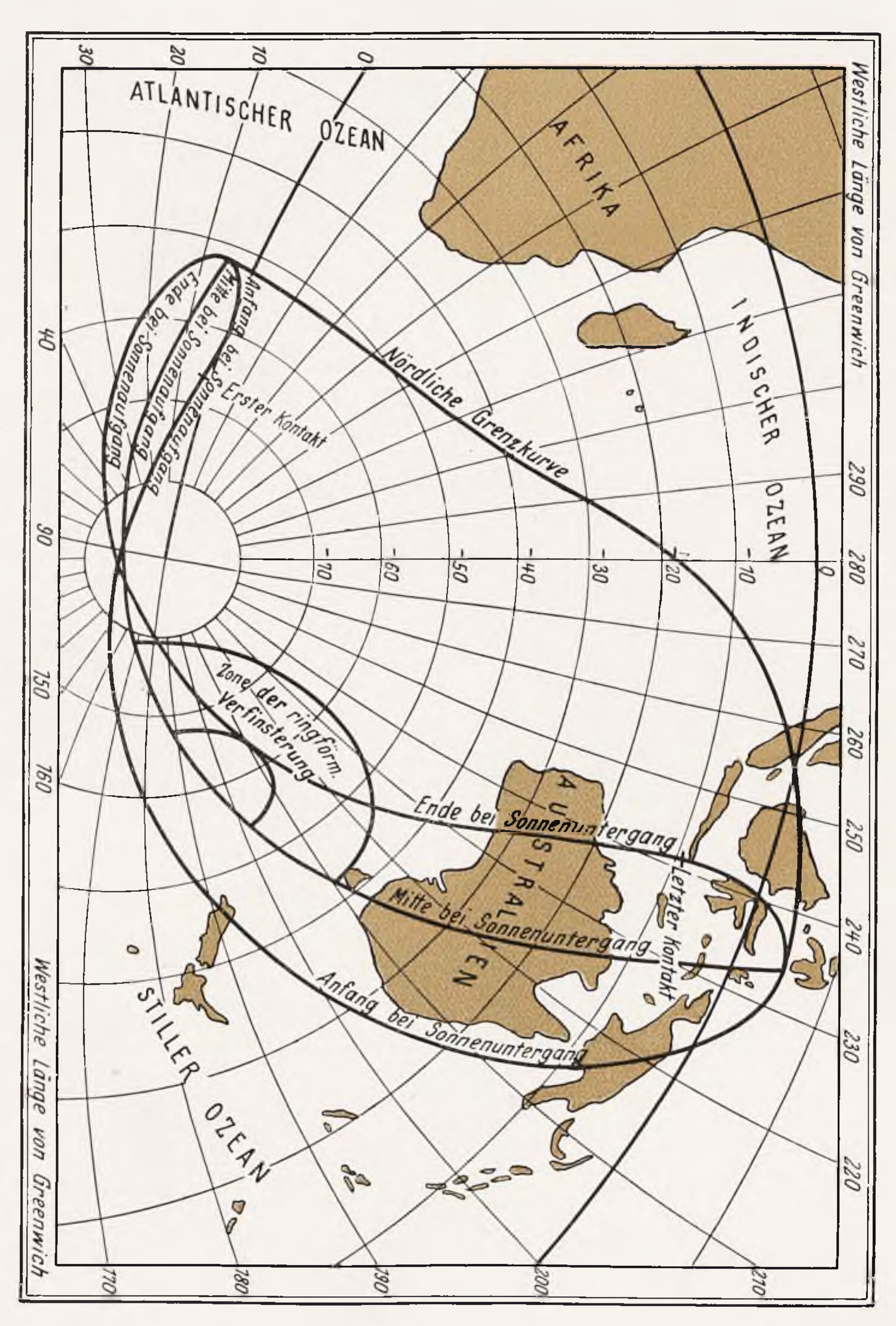
Positionswinkel des Eintritts . . . . = 90°
» » Austritts . . . . = 328°

Größe der Finsternis in Einheiten des Monddurchmessers = 0.973

Der Anfang der Finsternis ist sichtbar im östlichen Asien, in Australien, im Stillen Ozean, in Nordamerika mit Ausnahme der nordöstlichen Teile und in den westlichen Teilen von Südamerika. Das Ende ist sichtbar in Asien mit Ausnahme der südwestlichen Teile, im Indischen und Stillen Ozean und in den nordwestlichsten Teilen von Nordamerika.

Ringförmige Sonnenfinsternis

1932 März 7

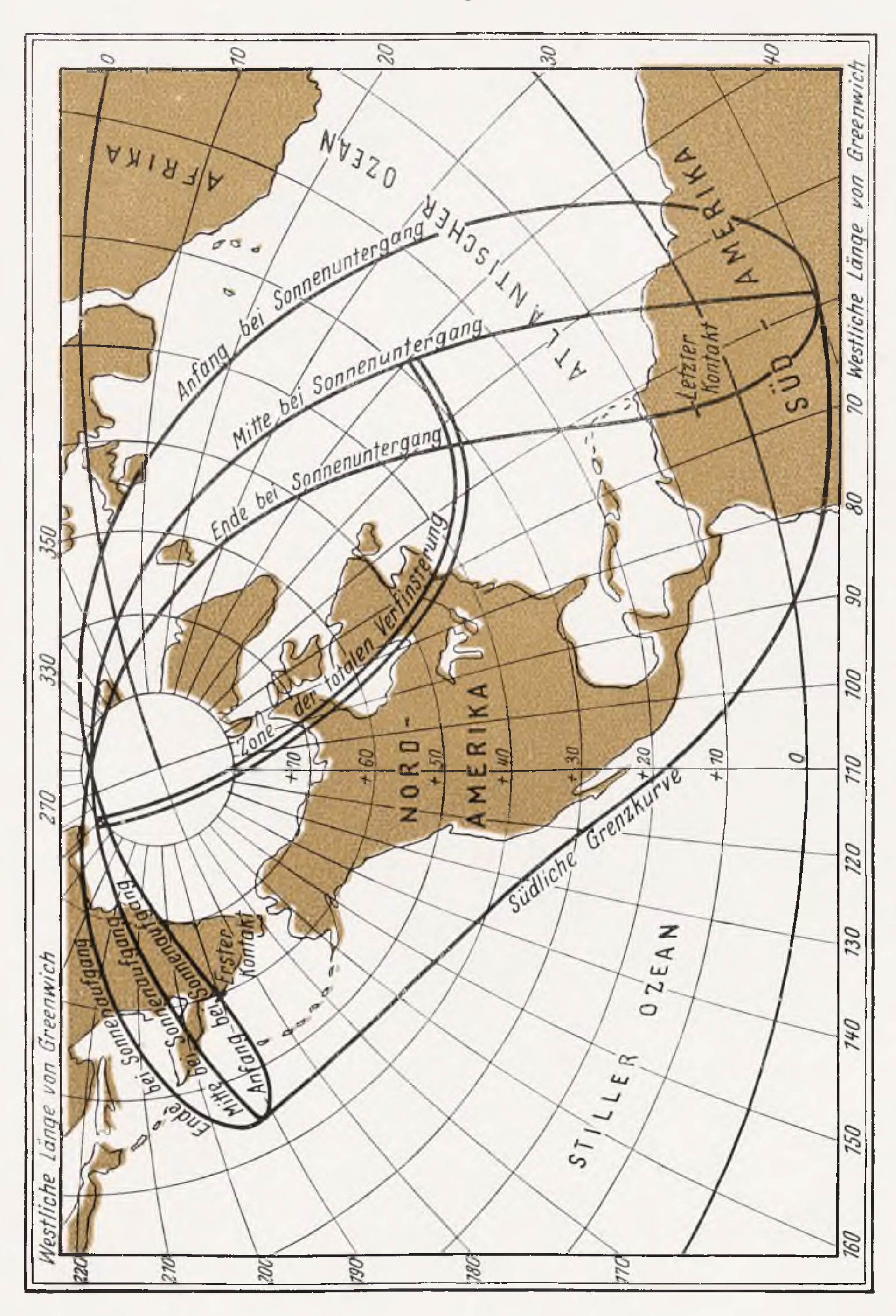


Zu Seite 278*

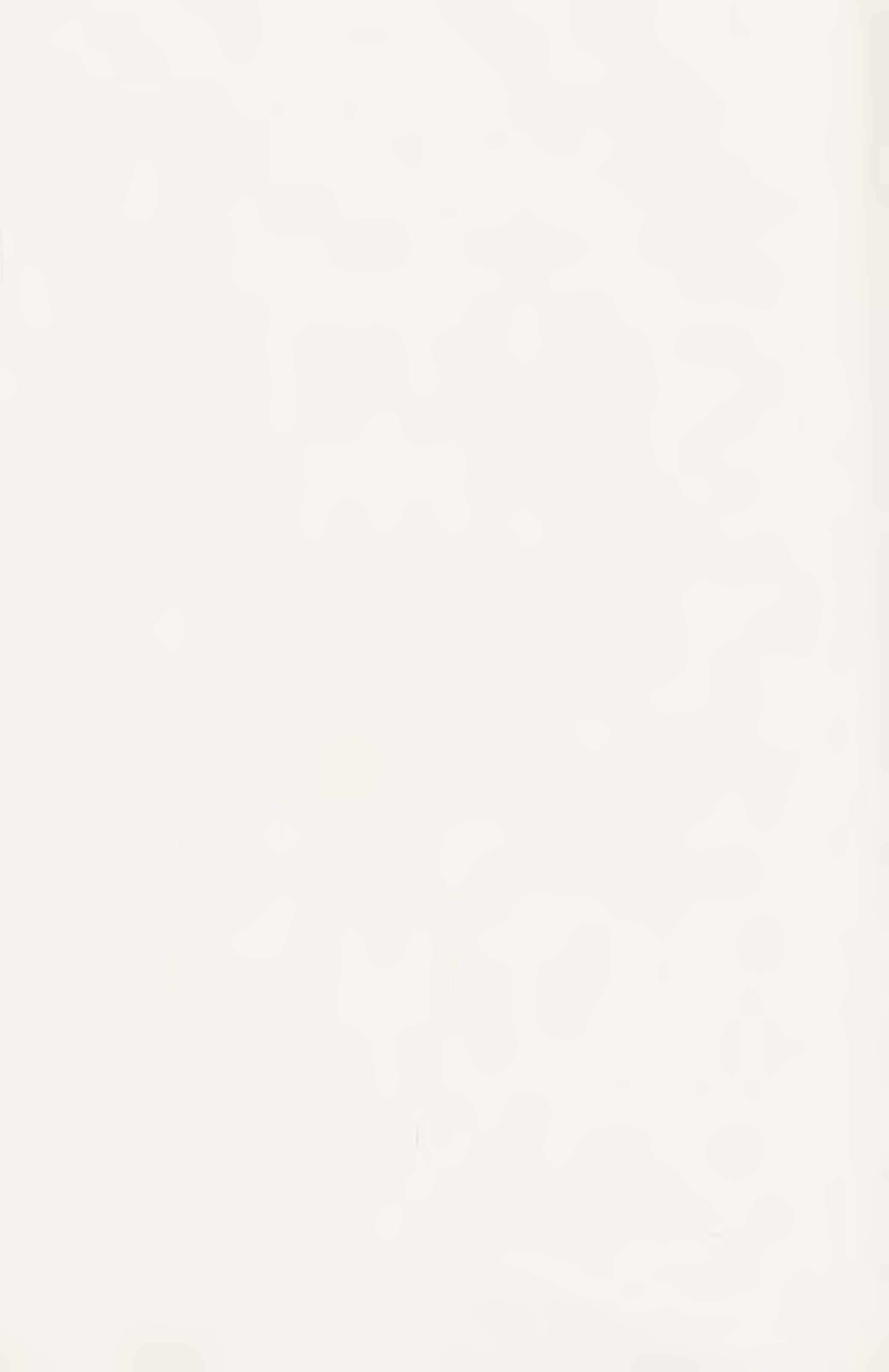


Totale Sonnenfinsternis

1932 August 31



Zu Seite 281*



III. Totale Sonnenfinsternis 1932 August 31 unsichtbar in Berlin.

Konjunktion in Rektaszension . . August 31, $19^h 16^m 49^s.7$ Welt-Zeit

Rektaszension des Mondes	$10^h 39^m 10^s.51$
Stündliche Änderung	2 8.00
Rektaszension der Sonne	10 39 10.51
Stündliche Änderung	9.08
Deklination des Mondes	$+9° 26' 31''.3$
Stündliche Änderung	— 16 10.8
Deklination der Sonne	+8 31 16.7
Stündliche Änderung	— 0 54.2
Äquatorialhorizontalparallaxe des Mondes .	$59' 7''.3$
„ der Sonne . .	8.7
Halbmesser des Mondes	$16' 5''.8$
„ der Sonne	15 51.0

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
Anfang der Finsternis . . .	August 31, $17^h 44^m.5$	$190° 42'$	$+59° 15'$
Anfang der zentralen Verfinsterung	» 19 4.2	250 44	+79 36
Zentrale Verfinsterung im wahren Mittag	» 19 16.8	109 10	+78 36
Ende der zentralen Verfinsterung	» 21 2.6	40 59	+28 27
Ende der Finsternis	» 22 22.1	64 45	+ 5 0

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer der Totalität	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer der Totalität
$19^h 4^m.2$	$250° 44'$	$+79° 36'$	—	$20^h 0^m$	$80° 31'.6$	$+55° 48'.2$	$1^m 44^s.6$
19 5	226 54.3	+83 28.5	0 58.1	20 10	77 21.4	+51 37.4	1 44.5
19 10	139 1.8	+83 49.0	1 11.0	20 20	74 10.0	+47 35.3	1 42.5
19 15	113 40.3	+79 57.3	1 18.7	20 30	70 41.1	+43 38.0	1 38.5
19 20	103 33.9	+76 23.0	1 24.6	20 40	66 32.9	+39 40.1	1 32.3
19 30	93 40.2	+70 14.7	1 33.3	20 50	61 0.2	+35 33.5	1 22.9
19 40	88 2.7	+64 58.0	1 39.2	21 0	50 54.7	+30 48.3	1 6.7
19 50	83 57.0	+60 12.9	1 42.9	21 2.6	40 59	+28 27	—

Die Finsternis ist sichtbar in der östlichen Spitze von Asien, im nördlichen Eismeer, in Grönland, an der Westküste Großbritanniens, in Nordamerika und im nördlichen Teile von Südamerika.

Elemente der totalen Sonnenfinsternis 1932, August 31

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
17ʰ 40ᵐ	—0.80252	+1.35500	9.17184	9.99516	84° 56.9	+0.54179	—0.00411
50	0.71964	1.31183	9.17172	9.99516	87 26.9	0.54178	0.00412
18 0	—0.63676	+1.26865	9.17160	9.99516	89 57.0	+0.54177	—0.00413
10	0.55388	1.22546	9.17148	9.99516	92 27.0	0.54176	0.00414
20	0.47100	1.18227	9.17136	9.99517	94 57.1	0.54175	0.00415
30	0.38812	1.13907	9.17124	9.99517	97 27.1	0.54174	0.00416
40	0.30523	1.09587	9.17112	9.99517	99 57.2	0.54172	0.00417
50	0.22235	1.05266	9.17099	9.99517	102 27.2	0.54171	0.00418
19 0	—0.13947	+1.00944	9.17087	9.99518	104 57.3	+0.54170	—0.00420
10	—0.05659	0.96622	9.17075	9.99518	107 27.3	0.54169	0.00421
20	+0.02629	0.92299	9.17063	9.99518	109 57.3	0.54167	0.00423
30	0.10917	0.87975	9.17051	9.99518	112 27.4	0.54166	0.00424
40	0.19205	0.83651	9.17038	9.99519	114 57.4	0.54164	0.00426
50	0.27493	0.79326	9.17026	9.99519	117 27.5	0.54162	0.00427
20 0	+0.35781	+0.75001	9.17014	9.99519	119 57.5	+0.54161	—0.00429
10	0.44069	0.70676	9.17002	9.99520	122 27.6	0.54159	0.00431
20	0.52356	0.66350	9.16990	9.99520	124 57.6	0.54157	0.00433
30	0.60643	0.62023	9.16977	9.99520	127 27.7	0.54155	0.00435
40	0.68930	0.57696	9.16965	9.99520	129 57.7	0.54153	0.00436
50	0.77217	0.53368	9.16953	9.99521	132 27.7	0.54151	0.00438
21 0	+0.85504	+0.49040	9.16941	9.99521	134 57.8	+0.54149	—0.00441
10	0.93790	0.44711	9.16928	9.99521	137 27.8	0.54147	0.00443
20	1.02076	0.40382	9.16916	9.99522	139 57.9	0.54145	0.00445
30	1.10361	0.36053	9.16904	9.99522	142 27.9	0.54142	0.00447
40	1.18647	0.31723	9.16892	9.99522	144 58.0	0.54140	0.00450
50	1.26931	0.27393	9.16880	9.99522	147 28.0	0.54137	0.00452
22 0	+1.35216	+0.23062	9.16867	9.99523	149 58.1	+0.54135	—0.00455
10	1.43500	0.18731	9.16855	9.99523	152 28.1	0.54132	0.00457
20	1.51783	0.14400	9.16843	9.99523	154 58.2	0.54130	0.00460
30	+1.60066	+0.10068	9.16831	9.99523	157 28.2	+0.54127	—0.00462

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
17ʰ 0ᵐ	+0.008287	—0.004314	7.66590	7.66373
18 0	0.008288	0.004318	7.66590	7.66373
19 0	0.008288	0.004322	7.66591	7.66374
20 0	0.008288	0.004325	7.66591	7.66374
21 0	0.008287	0.004328	7.66591	7.66374
22 0	0.008285	0.004331	7.66592	7.66375
23 0	+0.008283	—0.004331	7.66592	7.66375

IV. Partielle Mondfinsternis 1932 September 14 sichtbar in Berlin.

Opposition in Rektaszension . . September 14, $21^h 30^m 19^s.5$ Welt-Zeit

Rektaszension des Mondes	$23^h 29^m 58^s.88$
Stündliche Änderung	1 49.69
Rektaszension der Sonne	11 29 58.88
Stündliche Änderung	8.97
Deklination des Mondes	$-2^\circ 45' 3''.4$
Stündliche Änderung	+ 14 51.8
Deklination der Sonne	+3 14 33.7
Stündliche Änderung	− 0 57.7
Äquatorialhorizontalparallaxe des Mondes . .	$55' 21''.6$
» der Sonne . . .	8.8
Halbmesser des Mondes	$15' 4''.3$
» der Sonne	15 54.5

Eintritt des Mondes in den Halbschatten	Sept. 14,	$18^h 5^m.2$	Welt-Zeit
Eintritt des Mondes in den Kernschatten	»	19 18.2	»
Mitte der Finsternis	»	21 0.5	»
Austritt des Mondes aus dem Kernschatten	»	22 42.8	»
Austritt des Mondes aus dem Halbschatten	»	23 55.7	»

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

291°36′ westliche Länge von Greenwich, 3°18′ südliche Breite
341°20′ » » » » , 2°27′ » »

Positionswinkel des Eintritts . . . . = 89°
» » Austritts . . . . = 213°

Größe der Finsternis in Einheiten des Monddurchmessers = 0.982

Der Anfang der Finsternis ist sichtbar in Europa, in Afrika, im östlichen Teil des Atlantischen Ozeans, im Indischen Ozean, in Asien und Australien. Das Ende ist sichtbar im nordöstlichen Teil von Nordamerika, in Südamerika, im Atlantischen Ozean, in Europa, in Afrika, im westlichen Asien und im Indischen Ozean.

Sternbedeckungen 1932

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern: Name	Gr.	δ app.	Konjunktion in Rektaszension: Welt-Zeit	Stundenw. H	Y	x'	y'	Grenzen der Sichtbarkeit in geogr. Br.	Alter d. Mondes
				Januar					
	m	° '	d h m	h m				° °	d
f Virginis	6.0	− 5 27.5	1 1 22.8	−4 32.5	+0.9643	0.5258	−0.2815	+85 + 6	22.7
550 B. Virginis	6.0	−12 52.0	2 4 38.9	−2 9.6	+1.0047	0.5366	−0.2628	+78 +10	23.8
147 B. Piscium	5.9	+ 4 55.9	14 20 53.9	+3 41.6	+1.3860	0.4821	+0.2554	+80 +43	6.9
47 Arietis	5.8	+20 24.0	17 18 33.3	−0 37.0	+0.2666	0.5173	+0.1898	+60 −20	9.8
16 Tauri	5.4	+24 4.8	18 16 52.2	−3 1.0	+0.0632	0.5356	+0.1505	+48 −26	10.7
17 Tauri	3.8	+23 54.2	18 16 54.4	−2 58.9	+0.2599	0.5356	+0.1504	+60 −16	10.7
20 Tauri	4.1	+24 9.6	18 17 20.5	−2 33.6	+0.0472	0.5360	+0.1496	+47 −27	10.7
23 Tauri	4.3	+23 44.5	18 17 34.7	−2 19.9	+0.5377	0.5362	+0.1491	+81 − 2	10.7
η Tauri	2.9	+23 54.0	18 18 6.6	−1 49.1	+0.4444	0.5367	+0.1480	+73 − 6	10.8
104 B. Tauri	5.5	+23 13.0	18 18 30.9	−1 25.6	+1.2457	0.5370	+0.1472	+84 +47	10.8
27 Tauri	3.7	+23 51.0	18 18 53.0	−1 4.3	+0.6116	0.5373	+0.1464	+88 + 3	10.8
28 Tauri	5.2	+23 56.0	18 18 53.6	−1 3.7	+0.5224	0.5373	+0.1464	+80 − 2	10.8
406 B. Tauri	5.6	+27 57.1	20 22 59.9	+1 9.7	+0.5740	0.5736	+0.0141	+86 +14	13.0
136 Tauri	4.6	+27 36.0	20 23 57.6	+2 5.2	+0.9580	0.5740	+0.0113	+90 +36	13.0
γ Cancri	4.7	+21 42.9	23 20 40.6	−3 50.8	+0.8303	0.5662	−0.1840	+90 +12	15.9
8 Leonis	5.9	+16 44.6	24 19 41.9	−5 39.8	+1.0828	0.5533	−0.2313	+90 +22	16.8
Neptun	7.7	+ 9 30.7	26 0 36.1	−1 45.2	+1.0821	0.5393	−0.2710	+90 +16	18.0
τ Leonis	5.2	+ 3 13.8	26 22 26.2	−4 38.2	+1.3173	0.5312	−0.2853	+89 +34	18.9
89 Leonis	5.7	+ 3 26.2	27 1 29.1	−1 41.3	+0.2376	0.5305	−0.2863	+58 −32	19.1
f Virginis	6.0	− 5 27.6	28 7 7.8	+2 59.8	+0.6829	0.5296	−0.2842	+84 −10	20.3
i Virginis	5.7	−12 21.4	29 6 30.0	+1 36.1	+1.1768	0.5358	−0.2669	+78 +22	21.3
43 H. Virginis	5.5	−17 53.1	30 4 31.6	−1 7.2	+1.1957	0.5462	−0.2380	+73 +26	22.2
				Februar					
	m	° '	d h m	h m				° °	d
65 B. Scorpii	5.5	−26 8.8	1 3 59.4	−3 23.9	+0.5694	0.5742	−0.1347	+57 −13	24.2
16 Tauri	5.4	+24 4.8	15 1 35.0	+7 29.7	+0.2865	0.5307	+0.1485	+62 −15	8.5
17 Tauri	3.8	+23 54.2	15 1 37.1	+7 31.8	+0.4846	0.5307	+0.1484	+76 − 5	8.5
χ Tauri	5.3	+25 28.4	15 18 51.2	+0 11.1	+1.0148	0.5439	+0.1115	+90 +30	9.2
47 B. Aurigae	6.0	+27 57.0	16 15 21.1	−4 2.8	+0.1051	0.5581	+0.0605	+51 −14	10.0
49 Aurigae	5.1	+28 4.8	18 2 36.7	+5 53.2	+0.3461	0.5732	−0.0403	+67 0	11.5
47 Geminorum	5.6	+26 58.3	18 17 13.5	−4 3.9	+0.5970	0.5746	−0.0836	+88 + 9	12.1
49 Virginis	5.2	−10 22.8	25 5 5.3	+2 16.4	+1.3762	0.5420	−0.2806	+76 +43	18.6
43 B. Librae	5.7	−21 6.8	27 4 44.8	+0 14.6	+0.2564	0.5628	−0.2069	+47 −31	20.6
b Scorpii	4.7	−25 32.9	28 2 39.3	−2 40.7	+0.7852	0.5734	−0.1535	+65 − 1	21.5
4 Scorpii	5.7	−26 4.2	28 4 28.0	−0 56.2	+1.0424	0.5742	−0.1486	+64 +17	21.6
π Scorpii	3.0	−25 55.3	28 5 48.6	+0 21.3	+0.6961	0.5747	−0.1450	+64 − 6	21.6
				März					
	m	° '	d h m	h m				° °	d
ω Sagittarii	4.8	−26 29.0	3 4 46.2	−4 22.4	+0.8587	0.5556	+0.1315	+64 + 5	25.6
A Sagittarii	4.9	−26 23.0	3 6 7.4	−3 4.1	+0.9327	0.5546	+0.1347	+64 +10	25.7
47 B. Aurigae	6.0	+27 57.0	14 23 33.2	+5 57.2	+0.1884	0.5518	+0.0596	+56 −10	7.7
406 B. Tauri	5.6	+27 57.1	15 17 10.4	−1 4.0	+0.8176	0.5598	+0.0122	+90 +28	8.4
47 Geminorum	5.6	+26 58.3	17 2 39.3	+7 10.0	+0.6654	0.5659	−0.0828	+90 +13	9.8
c Geminorum	5.5	+25 56.9	17 16 14.1	−3 45.8	+0.3530	0.5648	−0.1206	+67 − 7	10.4
γ Cancri	4.7	+21 42.9	18 17 7.9	−3 47.3	+0.9196	0.5590	−0.1841	+90 +17	11.4
8 Leonis	5.9	+16 44.6	19 16 21.1	−5 24.2	+1.1088	0.5517	−0.2331	+90 +24	12.4
Neptun	7.7	+10 3.6	20 18 28.5	−4 11.5	+1.1537	0.5456	−0.2734	+90 +21	13.5
i Virginis	5.7	−12 21.5	23 23 10.4	−2 7.9	+0.9705	0.5540	−0.2770	+78 + 7	16.7

Sternbedeckungen 1932

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern			Konjunktion in Rektaszension					Grenzen der Sichtbarkeit in geogr. Br.	Alter d. Mondes
Name	Gr.	δ app.	Welt-Zeit	Stundenw. H	Y	x'	y'		
März									
	m	° '	d h m	h m				° °	d
550 B. Virginis	6.0	−12 52.2	24 2 36.3	+1 10.6	+0.5296	0.5556	−0.2728	+71 −17	16.8
236 G. Virginis	5.7	−18 24.3	24 21 10.8	−4 55.6	+1.1581	0.5652	−0.2440	+72 +23	17.6
τ Scorpii	2.8	−28 4.8	27 3 22.6	−0 51.7	+1.0469	0.5889	−0.1046	+62 +19	19.8
April									
	m	° '	d h m	h m				° °	d
47 Arietis	5.8	+20 23.9	8 16 43.7	+2 56.4	+0.5638	0.5146	+0.1882	+82 − 5	2.6
η Tauri	2.9	+23 53.9	9 16 49.0	+2 16.5	+0.7156	0.5295	+0.1449	+90 + 8	3.6
27 Tauri	3.7	+23 51.0	9 17 36.8	+3 2.6	+0.8846	0.5299	+0.1433	+90 +18	3.6
28 Tauri	5.2	+23 56.0	9 17 37.4	+3 3.2	+0.7938	0.5299	+0.1433	+90 +13	3.6
406 B. Tauri	5.6	+27 57.1	12 0 4.8	+7 38.0	+0.7554	0.5558	+0.0118	+90 +24	5.9
49 Aurigae	5.1	+28 4.8	12 18 56.2	+1 48.3	+0.3493	0.5587	−0.0398	+67 0	6.7
c Geminorum	5.5	+25 57.0	14 0 16.2	+6 4.1	+0.2803	0.5564	−0.1188	+62 −11	7.9
γ Cancri	4.7	+21 42.9	15 1 57.2	+6 49.9	+0.8562	0.5496	−0.1808	+90 +13	9.0
8 Leonis	5.9	+16 44.6	16 1 55.8	+5 58.4	+1.0528	0.5424	−0.2288	+90 +20	10.0
43 B. Librae	5.7	−21 6.9	21 23 25.3	−1 29.0	+0.2811	0.5822	−0.2130	+48 −30	15.9
4 Scorpii	5.7	−26 4.2	22 21 39.1	−4 9.4	+1.0641	0.5951	−0.1530	+64 +20	16.8
π Scorpii	3.0	−25 55.4	22 22 54.5	−2 57.1	+0.7294	0.5957	−0.1493	+65 − 4	16.9
65 B. Scorpii	5.5	−26 9.0	23 2 22.2	+0 21.8	+0.4550	0.5971	−0.1387	+51 −20	17.0
234 B. Sagittarii	5.9	−28 0.0	26 4 13.2	−0 51.2	+1.0308	0.5741	+0.0997	+63 +18	20.1
χ Capricorni	5.3	−21 28.1	28 1 34.1	−5 7.3	+1.1406	0.5297	+0.1983	+69 +23	22.0
Mai									
	m	° '	d h m	h m				° °	d
f Virginis	6.0	− 5 27.7	16 22 25.7	+1 30.0	+0.3960	0.5380	−0.2873	+66 −25	11.1
i Virginis	5.7	−12 21.5	17 20 48.9	−0 52.9	+0.9177	0.5520	−0.2727	+78 + 4	12.1
550 B. Virginis	6.0	−12 52.3	18 0 16.2	+2 27.0	+0.4853	0.5545	−0.2690	+68 −20	12.2
τ Scorpii	2.8	−28 4.8	20 23 15.8	−1 22.4	+1.1993	0.6060	−0.1048	+62 +35	15.2
ω Sagittarii	4.8	−26 28.9	24 1 53.5	−1 52.4	+1.1630	0.5710	+0.1363	+64 +29	18.3
A Sagittarii	4.9	−26 22.9	24 3 10.4	−0 38.4	+1.2374	0.5696	+0.1395	+64 +38	18.3
φ Aquarii	4.6	− 6 24.9	28 1 54.4	−4 54.9	+0.5152	0.4887	+0.2589	+74 −19	22.3
Juni									
	m	° '	d h m	h m				° °	d
47 Geminorum	5.6	+26 58.3	6 21 55.4	+7 48.6	+0.2402	0.5593	−0.0843	+59 −10	2.5
Neptun	7.8	+10 16.3	10 18 13.8	+0 59.4	+0.7320	0.5225	−0.2594	+90 − 4	6.4
τ Leonis	5.2	+ 3 13.7	11 20 54.9	+2 50.3	+0.7505	0.5206	−0.2790	+90 − 6	7.5
49 Virginis	5.2	−10 22.9	13 20 46.7	+1 10.2	+1.0708	0.5373	−0.2736	+80 +14	9.5
4 Scorpii	5.7	−26 4.3	16 18 28.2	−3 44.0	+1.0835	0.5944	−0.1482	+64 +21	12.4
π Scorpii	3.0	−25 55.5	16 19 44.1	−2 31.2	+0.7528	0.5952	−0.1445	+65 − 2	12.4
65 B. Scorpii	5.5	−26 9.0	16 23 12.6	+0 48.5	+0.4926	0.5976	−0.1341	+53 −17	12.6
248 B. Sagittarii	5.7	−27 7.6	20 1 31.8	−0 1.7	+0.6896	0.5867	+0.1116	+63 − 6	15.7
ι Aquarii	4.4	−14 11.9	22 22 21.6	−5 37.6	+0.1507	0.5170	+0.2408	+48 −37	18.5
42 Aquarii	5.5	−13 10.1	23 3 34.7	−0 34.1	+0.3260	0.5126	+0.2454	+59 −28	18.7
Juli									
	m	° '	d h m	h m				° °	d
χ Tauri	5.3	+25 28.4	1 4 5.2	−5 37.2	+0.9977	0.5443	+0.1054	+90 +30	26.8
8 Leonis	5.9	+16 44.6	6 20 50.9	+6 16.1	+0.3876	0.5356	−0.2280	+68 −18	3.0
45 Leonis	5.8	+10 6.5	7 20 57.3	+5 35.7	+1.3859	0.5255	−0.2588	+76 +49	4.0
ψ Virginis	5.0	− 9 10.4	10 20 33.9	+2 57.3	+1.3340	0.5287	−0.2746	+79 +37	7.0
135 B. Scorpii	6.0	−28 23.3	14 21 15.2	+0 4.4	+1.0931	0.5969	−0.0875	+62 +24	11.0
τ Sagittarii	3.5	−27 46.3	17 2 8.0	+2 44.0	+0.4919	0.5912	+0.0872	+49 −17	13.2

Sternbedeckungen 1932

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern: Name	Gr.	δ app.	Konjunktion in Rektaszension: Welt-Zeit	Stundenw. H	Y	x'	y'	Grenzen der Sichtbarkeit in geogr. Br.	Alter d. Mondes
Juli									
	m	° ′	d h m	h m				° °	d
δ Capricorni	2.9	−16 26.0	19 22 13.9	−3 39.5	+0.4340	0.5290	+0.2340	+62 −22	16.0
96 Aquarii	5.7	− 5 29.5	21 21 33.6	−5 44.6	+0.8016	0.4961	+0.2653	+85 − 3	18.0
δ Piscium	4.5	+ 7 13.2	23 23 4.8	−5 34.5	+0.0185	0.4873	+0.2554	+46 −43	20.1
406 B. Tauri	5.6	+27 57.1	30 2 30.3	−6 46.3	+0.5968	0.5613	+0.0049	+89 +15	26.2
136 Tauri	4.6	+27 36.0	30 3 30.5	−5 48.3	+0.9802	0.5616	+0.0022	+90 +38	26.2
August									
	m	° ′	d h m	h m				° °	d
c Leonis	5.1	+ 6 28.0	4 19 26.8	+5 22.2	+0.6932	0.5268	−0.2767	+90 − 9	2.4
248 B. Sagittarii	5.7	−27 7.6	13 18 48.4	−3 9.3	+0.6767	0.5782	+0.1138	+62 − 6	11.4
γ Capricorni	3.7	−16 58.0	16 3 31.8	+3 32.7	+0.2603	0.5303	+0.2307	+52 −31	13.7
σ Aquarii	4.8	−11 1.3	17 4 33.9	+3 48.2	+0.0849	0.5117	+0.2559	+47 −40	14.8
φ Aquarii	4.6	− 6 24.6	18 3 30.0	+2 4.2	+1.1693	0.4992	+0.2668	+84 +20	15.7
60 B. Piscium	6.0	− 0 15.8	19 1 33.2	−0 29.4	+0.4504	0.4919	+0.2681	+71 −22	16.7
μ Arietis	5.7	+19 43.7	22 20 13.4	−8 21.6	+0.3841	0.5101	+0.1939	+68 −16	20.4
47 Arietis	5.8	+20 24.1	23 4 7.9	−0 41.4	+1.1232	0.5145	+0.1815	+90 +30	20.8
16 Tauri	5.4	+24 4.9	24 2 49.6	−2 42.5	+0.7194	0.5282	+0.1401	+90 + 9	21.7
17 Tauri	3.8	+23 54.3	24 2 51.8	−2 40.4	+0.9188	0.5282	+0.1400	+90 +20	21.7
18 Tauri	5.6	+24 37.9	24 2 59.4	−2 33.0	+0.1345	0.5283	+0.1398	+53 −22	21.7
q Tauri	4.3	+24 15.6	24 3 1.0	−2 31.5	+0.5487	0.5283	+0.1397	+82 − 1	21.7
20 Tauri	4.1	+24 9.6	24 3 18.6	−2 14.4	+0.6988	0.5285	+0.1391	+90 + 8	21.7
21 Tauri	5.8	+24 20.9	24 3 20.8	−2 12.3	+0.4974	0.5285	+0.1390	+77 − 3	21.7
23 Tauri	4.3	+23 44.5	24 3 33.1	−2 0.4	+1.1947	0.5286	+0.1386	+90 +42	21.7
η Tauri	2.9	+23 54.0	24 4 5.9	−1 28.7	+1.0951	0.5290	+0.1375	+90 +33	21.8
27 Tauri	3.7	+23 51.1	24 4 53.4	−0 42.7	+1.2578	0.5295	+0.1359	+81 +50	21.8
28 Tauri	5.2	+23 56.1	24 4 54.0	−0 42.1	+1.1670	0.5295	+0.1359	+90 +40	21.8
September									
	m	° ′	d h m	h m				° °	d
ι Aquarii	4.4	−14 11.8	12 23 35.1	+ 0 59.3	+0.3786	0.5162	+0.2441	+60 −25	12.2
μ Arietis	5.7	+19 43.7	19 3 49.5	+ 1 2.2	+0.4014	0.5111	+0.1943	+69 −15	18.4
47 B. Aurigae	6.0	+27 57.0	22 1 22.5	− 3 40.2	+0.2241	0.5462	+0.0508	+58 − 7	21.3
406 B. Tauri	5.6	+27 57.1	22 19 27.7	−10 13.3	+0.7168	0.5518	+0.0039	+90 +23	22.0
136 Tauri	4.6	+27 36.0	22 20 29.5	− 9 13.6	+1.1033	0.5520	+0.0012	+90 +47	22.1
α Leonis	1.4	+12 17.9	27 13 24.4	+ 3 44.1	+1.3371	0.5357	−0.2544	+82 +43	26.8
Oktober									
	m	° ′	d h m	h m				° °	d
γ Capricorni	3.7	−16 58.0	9 16 19.2	−4 4.9	+0.2893	0.5217	+0.2270	+54 −30	9.5
δ Capricorni	2.9	−16 26.0	9 19 44.5	−0 46.0	+0.5052	0.5191	+0.2312	+66 −18	9.6
σ Aquarii	4.8	−11 1.3	10 18 0.6	−3 10.0	+0.1127	0.5047	+0.2522	+48 −39	10.6
φ Aquarii	4.6	− 6 24.6	11 17 26.2	−4 24.4	+1.2015	0.4945	+0.2640	+84 +23	11.5
96 Aquarii	5.7	− 5 29.4	11 20 12.7	−1 42.4	+0.9377	0.4937	+0.2648	+85 + 5	11.6
60 B. Piscium	6.0	− 0 15.7	12 15 49.1	−6 38.2	+0.4652	0.4898	+0.2664	+72 −21	12.5
δ Piscium	4.5	+ 7 13.4	13 21 53.6	−1 22.7	+0.1644	0.4908	+0.2570	+54 −36	13.7
47 Arietis	5.8	+20 24.2	16 18 30.8	−6 43.2	+1.0579	0.5169	+0.1814	+90 +25	16.6
16 Tauri	5.4	+24 4.9	17 17 16.3	−8 40.5	+0.6337	0.5288	+0.1393	+90 + 4	17.5
17 Tauri	3.8	+23 54.4	17 17 18.5	−8 38.4	+0.8344	0.5288	+0.1392	+90 +15	17.5
18 Tauri	5.6	+24 38.0	17 17 26.2	−8 31.0	+0.0448	0.5289	+0.1390	+48 −26	17.5
q Tauri	4.3	+24 15.7	17 17 27.7	−8 29.5	+0.4616	0.5289	+0.1389	+75 − 5	17.5
20 Tauri	4.1	+24 9.7	17 17 45.5	−8 12.3	+0.6126	0.5291	+0.1383	+88 + 3	17.5

Sternbedeckungen 1932

Elemente der in Mitteleuropa sichtbaren Sternbedeckungen

Stern			Konjunktion in Rektaszension					Grenzen der Sichtbarkeit in geogr. Br.	Alter d. Mondes
Name	Gr.	δ app.	Welt-Zeit	Stundenw. H	Y	x'	y'		
Oktober									
	m	° '	d h m	h m				° °	d
21 Tauri	5.8	+24 21.0	17 17 47.7	−8 10.2	+0.4098	0.5291	+0.1382	+71 − 8	17.5
23 Tauri	4.3	+23 44.6	17 18 0.1	−7 58.2	+1.1116	0.5292	+0.1378	+90 +34	17.6
η Tauri	2.9	+23 54.1	17 18 33.0	−7 26.3	+1.0108	0.5295	+0.1367	+90 +28	17.6
27 Tauri	3.7	+23 51.1	17 19 20.9	−6 40.0	+1.1741	0.5299	+0.1350	+90 +41	17.6
28 Tauri	5.2	+23 56.2	17 19 21.5	−6 39.4	+1.0827	0.5299	+0.1350	+90 +33	17.6
406 B. Tauri	5.6	+27 57.1	20 2 36.2	−1 17.2	+0.5866	0.5491	+0.0034	+88 +16	19.9
136 Tauri	4.6	+27 36.0	20 3 38.9	−0 16.7	+0.9755	0.5493	+0.0007	+90 +38	20.0
49 Aurigae	5.1	+28 4.7	20 22 1.8	−6 32.6	+0.0200	0.5500	−0.0472	+46 −18	20.7
κ Geminorum	3.6	+24 33.7	22 4 40.4	−0 58.4	+1.1912	0.5451	−0.1239	+90 +44	22.0
Mars	1.3	+16 26.9	24 6 22.4	−0 56.8	+0.9581	0.5092	−0.2184	+90 +13	24.1
November									
	m	° '	d h m	h m				° °	d
17 Capricorni	5.8	−21 45.7	4 21 7.6	+3 20.9	+0.2654	0.5474	+0.1889	+46 −31	6.3
γ Capricorni	3.7	−16 58.1	5 22 12.2	+3 35.5	+0.4867	0.5232	+0.2271	+63 −19	7.3
42 Aquarii	5.5	−13 10.0	6 16 35.0	−2 35.5	+0.8079	0.5088	+0.2457	+77 − 2	8.1
φ Aquarii	4.6	− 6 24.6	7 23 13.6	+3 10.4	+1.3651	0.4928	+0.2618	+81 +40	9.4
60 B. Piscium	6.0	− 0 15.7	8 21 42.3	+1 2.4	+0.5992	0.4877	+0.2637	+80 −14	10.3
17 Tauri	3.8	+23 54.4	13 23 27.4	−0 42.1	+0.7380	0.5309	+0.1379	+90 +10	15.4
q Tauri	4.3	+24 15.7	13 23 36.6	−0 33.2	+0.3647	0.5309	+0.1375	+67 −10	15.4
20 Tauri	4.1	+24 9.8	13 23 54.3	−0 16.0	+0.5152	0.5311	+0.1369	+79 − 1	15.4
23 Tauri	4.3	+23 44.6	14 0 8.9	−0 1.9	+1.0142	0.5312	+0.1364	+90 +28	15.4
η Tauri	2.9	+23 54.1	14 0 41.8	+0 29.9	+0.9124	0.5315	+0.1353	+90 +21	15.4
27 Tauri	3.7	+23 51.2	14 1 29.5	+1 16.1	+1.0744	0.5320	+0.1337	+90 +32	15.5
χ Tauri	5.3	+25 28.5	14 17 3.9	−7 40.3	+1.0928	0.5396	+0.0998	+90 +38	16.1
α Leonis	1.4	+12 17.8	21 7 31.6	+1 27.2	+0.9686	0.5194	−0.2453	+90 +11	22.7
i Virginis	5.7	−12 21.5	25 6 36.6	−2 30.6	+0.1127	0.5512	−0.2655	+47 −39	26.7
Dezember									
	m	° '	d h m	h m				° °	d
ι Aquarii	4.4	−14 11.8	3 18 35.8	+1 22.4	+0.9172	0.5188	+0.2440	+76 + 5	5.8
λ Aquarii	3.8	− 7 56.2	4 18 15.5	+0 19.8	+0.2626	0.5017	+0.2591	+57 −31	6.8
μ Arietis	5.7	+19 43.8	9 23 4.0	+1 39.3	+0.3932	0.5131	+0.1897	+69 −14	12.0
16 Tauri	5.4	+24 5.0	11 5 39.1	+7 17.1	+0.5702	0.5314	+0.1356	+84 + 2	13.2
17 Tauri	3.8	+23 54.4	11 5 41.2	+7 19.2	+0.7706	0.5314	+0.1355	+90 +13	13.2
q Tauri	4.3	+24 15.7	11 5 50.4	+7 28.1	+0.3974	0.5315	+0.1352	+70 − 7	13.2
χ Tauri	5.3	+25 28.5	11 23 14.6	+0 17.9	+1.0816	0.5410	+0.0976	+90 +37	14.0
136 Tauri	4.6	+27 36.0	13 15 42.3	−8 38.4	+0.6828	0.5534	−0.0031	+90 +21	15.7
A Geminorum	5.1	+25 10.9	15 7 27.8	+5 43.4	+1.1585	0.5480	−0.1044	+90 +42	17.3
κ Geminorum	3.6	+24 33.7	15 16 54.0	−9 9.9	+0.7423	0.5446	−0.1265	+90 +12	17.7
45 Leonis	5.8	+10 6.3	18 23 24.2	−5 10.6	+0.5542	0.5136	−0.2542	+79 −13	21.0
ρ Leonis	3.8	+ 9 39.1	19 2 0.9	−2 38.5	+0.3636	0.5131	−0.2566	+65 −24	21.1
49 Leonis	5.7	+ 8 59.8	19 3 8.8	−1 32.7	+0.7622	0.5129	−0.2575	+90 − 3	21.1
ψ Virginis	5.0	− 9 10.5	22 0 37.1	−6 12.4	+0.6271	0.5296	−0.2703	+78 −13	24.0
49 Virginis	5.2	−10 23.0	22 6 58.5	−0 3.4	+0.1443	0.5341	−0.2661	+49 −37	24.3
π Scorpii	3.0	−25 55.4	25 5 44.1	−3 56.5	+0.4859	0.6002	−0.1354	+52 −18	27.2
17 Capricorni	5.8	−21 45.7	29 15 52.2	+1 41.5	+0.7325	0.5650	+0.1978	+69 − 5	2.2
γ Capricorni	3.7	−16 58.1	30 15 35.5	+0 34.6	+1.0272	0.5393	+0.2359	+74 +12	3.1
δ Capricorni	2.9	−16 26.1	30 18 48.5	+3 41.1	+1.2445	0.5360	+0.2398	+74 +30	3.3
σ Aquarii	4.8	−11 1.4	31 15 52.5	+0 4.9	+0.8994	0.5171	+0.2581	+79 + 3	4.2

Sternbedeckungen 1932

Ein- und Austritte für Berlin-Babelsberg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1932			m		h m	°	m	m	d
Jan.	17	47 Arietis	5.8	E.	18 31	12	—0.6	+3.4	9.8
	18	23 Tauri	4.3	E.	16 27	54	—0.7	+2.1	10.7
	18	η Tauri	2.9	E.	17 13	46	—0.8	+2.2	10.7
	18	27 Tauri	3.7	E.	18 5	93	—1.7	+0.4	10.8
	18	28 Tauri	5.2	E.	18 7.5	75	—1.4	+0.7	10.8
	18	η Tauri	2.9	A.	18 26	267	—1.6	+0.5	10.8
	20	406 B. Tauri	5.6	E.	23 9	116	—1.0	—2.0	13.0
Febr.	14	66 Arietis	6.1	E.	17 49.5	148	—	—	8.1
	16	354 B. Tauri	6.4	E.	19 59	88	—1.5	—0.6	10.2
	18	134 B.Geminorum	6.5	E.	18 39	131	—1.4	—0.8	12.2
März	14	38 B. Aurigae	6.5	E.	22 4	48	—0.7	—0.5	7.6
	27	τ Scorpii	2.8	E.	2 49	117	—1.3	0.0	19.8
	27	τ Scorpii	2.8	A.	4 1	270	—1.5	—0.3	19.9
April	9	η Tauri	2.9	A.	17 57.5	192	—	—	3.6
	12	49 Aurigae	5.1	E.	19 20.5	53	—1.6	+0.1	6.7
Mai	17	i Virginis	5.7	E.	20 16	128	—1.0	—0.4	12.0
	24	ω Sagittarii	4.8	A.	1 57	212	—1.3	+0.8	18.3
Juni	13	49 Virginis	5.2	E.	20 59	123	—1.0	—1.4	9.5
Juli	30	406 B. Tauri	5.6	A.	1 50.5	302	—0.2	+0.9	26.2
Aug.	24	q Tauri	4.3	E.	1 48.5	55	—c.6	+2.1	21.7
	24	20 Tauri	4.1	E.	2 3.5	90	—1.2	+1.3	21.7
	24	16 Tauri	5.4	A.	2 37	228	—0.8	+2.2	21.7
	24	q Tauri	4.3	A.	3 2	257	—1.3	+1.3	21.7
	24	20 Tauri	4.1	A.	3 14	223	—0.9	+2.3	21.7
Sept.	11	27 Capricorni	6.1	E.	19 2	91	—1.5	+1.0	11.0
	13	ι Aquarii	4.4	E.	0 34	340	—	—	12.2
	27	α Leonis	1.4	E.	14 36	186	—	—	26.8
	27	α Leonis	1.4	A.	14 56.5	231	—	—	26.8
Okt.	11	96 Aquarii	5.7	E.	19 12	52	—1.0	+1.7	11.6
	16	47 Arietis	5.8	A.	17 47	236	+0.4	+1.7	16.5
	17	27 Tauri	3.7	A.	18 20.5	193	+0.9	+2.1	17.6
	17	28 Tauri	5.2	A.	18 32.5	219	+0.5	+1.8	17.6
	19	107 B. Aurigae	6.5	A.	19 25	258	+0.5	+1.4	19.6
Nov.	6	42 Aquarii	5.5	E.	15 46.5	8	—0.6	+2.0	8.1
	8	60 B. Piscium	6.0	E.	21 53	58	—1.1	—0.1	10.3
	13	17 Tauri	3.8	E.	23 3.5	139	—	—	15.4
	13	q Tauri	4.3	E.	23 9.5	53	—1.4	+1.6	15.4
	13	20 Tauri	4.1	E.	23 26	86	—1.7	+0.1	15.4
	13	17 Tauri	3.8	A.	23 31	178	—	—	15.4
	14	q Tauri	4.3	A.	0 28.5	269	—1.6	—0.6	15.4
	14	20 Tauri	4.1	A.	0 46.5	238	—1.5	+0.6	15.4
	19	35 B. Cancri	6.4	A.	0 11	291	—1.0	+0.7	20.4
	21	α Leonis	1.4	E.	7 56	136	—0.6	—2.0	22.7
	21	α Leonis	1.4	A.	9 0.5	290	—0.6	—1.8	22.8
Dez.	3	ι Aquarii	4.4	E.	18 48	108	—1.8	—2.1	5.8
	9	μ Arietis	5.7	E.	23 25	61	—1.2	—0.3	12.0
	16	5 B. Cancri	6.4	A.	0 43.5	256	—1.7	+1.1	18.0
	18	45 Leonis	5.8	A.	22 47	277	—0.4	+1.4	20.9
	19	ρ Leonis	3.8	E.	0 36	94	—1.0	+1.3	21.0
	19	ρ Leonis	3.8	A.	1 39.5	329	—0.8	—1.1	21.1
	31	σ Aquarii	4.8	E.	15 33.5	75	—1.5	0.0	4.1

Sternbedeckungen 1932

Ein- und Austritte für Königsberg

Tag	Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1932		m		h m	°	m	m	d
Jan. 2	550 B. Virginis	6.0	A.	5 2.5	274	—1.5	+0.1	23.8
17	47 Arietis	5.8	E.	18 43.5	11	—0.7	+3.3	9.8
18	23 Tauri	4.3	E.	16 37.5	58	—0.9	+1.8	10.7
18	η Tauri	2.9	E.	17 24.5	49	—1.0	+1.9	10.7
18	27 Tauri	3.7	E.	18 17.5	93	—1.6	0.0	10.8
18	28 Tauri	5.2	E.	18 19.5	75	—1.4	+0.7	10.8
18	η Tauri	2.9	A.	18 38.5	267	—1.5	+0.1	10.8
20	406 B. Tauri	5.6	E.	23 12	104	—0.9	—1.6	13.0
26	80 Leonis	6.4	A.	20 55	281	—0.4	+1.3	18.9
Febr. 14	66 Arietis	6.1	E.	17 52.5	136	—	—	8.1
16	354 B. Tauri	6.4	E.	20 8	78	—1.3	—0.5	10.2
18	134 B. Geminorum	6.5	E.	18 48	123	—1.3	—0.6	12.2
März 14	38 B. Aurigae	6.5	E.	22 9.5	28	—1.0	+0.3	7.6
April 9	η Tauri	2.9	A.	18 9	213	—0.9	+0.3	3.7
9	28 Tauri	5.2	E.	18 21.5	139	+0.4	—3.9	3.7
Mai 11	35 B. Cancri	6.4	E.	20 31.5	181	—	—	6.1
17	*i* Virginis	5.7	E.	20 23	116	—1.2	—0.4	12.0
Juni 13	49 Virginis	5.2	E.	21 3	117	—0.9	—1.5	9.5
Juli 30	406 B. Tauri	5.6	A.	1 54.5	297	—0.3	+1.1	26.2
Aug. 24	*q* Tauri	4.3	E.	1 58.5	59	—0.8	+1.2	21.7
24	20 Tauri	4.1	E.	2 16	95	—1.4	+1.0	21.7
24	16 Tauri	5.4	A.	2 48.5	224	—0.9	+1.0	21.7
Sept. 11	27 Capricorni	6.1	E.	19 14.5	95	—1.5	+0.5	11.0
21	38 B. Aurigae	6.5	A.	22 19.5	328	—	—	21.1
Okt. 11	96 Aquarii	5.7	E.	19 23.5	59	—1.1	+1.3	11.6
16	47 Arietis	5.8	A.	17 48.5	232	+0.2	+1.8	16.5
17	27 Tauri	3.7	E.	17 54.5	135	—0.3	+1.0	17.5
17	η Tauri	2.9	A.	17 55	239	+0.4	+1.7	17.5
17	27 Tauri	3.7	A.	18 19	186	+1.0	+2.4	17.6
17	28 Tauri	5.2	A.	18 33.5	214	+0.5	+2.0	17.6
19	107 B. Aurigae	6.5	A.	19 25	153	+0.4	+1.6	19.6
20	406 B. Tauri	5.6	A.	3 13.5	240	—1.6	+1.0	19.9
24	Mars	1.3	E.	6 42.5	192	—	—	24.1
24	Mars	1.3	A.	7 8.5	232	—	—	24.1
Nov. 6	42 Aquarii	5.5	E.	15 54.5	14	—0.6	+1.6	8.1
8	60 B. Piscium	6.0	E.	22 0	59	—0.9	—0.4	10.3
13	*q* Tauri	4.3	E.	23 23	51	—1.3	+1.3	15.4
13	20 Tauri	4.1	E.	23 38	83	—1.5	—0.2	15.4
14	*q* Tauri	4.3	A.	0 37.5	275	—1.4	—1.3	15.4
14	20 Tauri	4.1	A.	0 57	245	—1.3	—0.1	15.4
14	χ Tauri	5.3	A.	16 20	217	+0.6	+1.8	16.1
21	α Leonis	1.4	E.	7 56	125	—0.5	—1.9	22.7
21	α Leonis	1.4	A.	8 59.5	299	—0.3	—1.9	22.8
Dez. 3	ι Aquarii	4.4	E.	18 55	113	—1.6	—2.7	5.8
9	μ Arietis	5.7	E.	23 32	53	—0.9	—0.2	12.0
18	45 Leonis	5.8	A.	22 53.5	286	—0.6	+1.1	21.0
19	ρ Leonis	3.8	E.	0 48.5	79	—1.4	+1.9	21.0
19	ρ Leonis	3.8	A.	1 41.5	346	—0.5	—1.9	21.1
19	49 Leonis	5.7	A.	3 46	294	—1.2	—0.9	21.2
31	σ Aquarii	4.8	E.	15 43.5	81	—1.4	—0.5	4.2

Sternbedeckungen 1932

Ein- und Austritte für München

Tag	Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1932		m		h m	°	m	m	d
Jan. 17	47 Arietis	5.8	E.	18 17.5	26	−0.9	+2.6	9.8
18	23 Tauri	4.3	E.	16 17.5	60	−0.8	+2.0	10.7
18	η Tauri	2.9	E.	17 3	54	−0.9	+2.1	10.7
18	28 Tauri	5.2	E.	18 1	85	−1.7	+0.8	10.8
18	27 Tauri	3.7	E.	18 1	104	−2.1	0.0	10.8
18	η Tauri	2.9	A.	18 20.5	256	−1.7	+1.0	10.8
20	406 B. Tauri	5.6	E.	23 17.5	133	−0.9	−2.8	13.0
Febr. 16	354 B. Tauri	6.4	E.	20 0.5	103	−1.7	−1.2	10.2
18	134 B. Geminorum	6.5	E.	18 43	149	−1.7	−2.3	12.2
28	*b* Scorpii	4.7	A.	2 29.5	293	−1.1	+0.5	21.5
März 14	38 B. Aurigae	6.5	E.	22 5.5	62	−0.6	−0.7	7.6
27	τ Scorpii	2.8	E.	2 47	122	−1.3	−0.1	19.8
27	τ Scorpii	2.8	A.	4 0	267	−1.7	−0.2	19.9
April 12	49 Aurigae	5.1	E.	19 19	70	−1.5	−0.6	6.7
Mai 17	*i* Virginis	5.7	E.	20 16.5	138	−1.0	−0.6	12.0
24	ω Sagittarii	4.8	A.	1 51	220	−1.4	+1.1	18.3
Juni 11	83 Leonis	6.3	E.	20 58	60	—	—	7.5
13	49 Virginis	5.2	E.	21 3.5	127	−1.1	−1.5	9.5
23	39 Aquarii	6.2	A.	0 49	207	−1.0	+1.9	18.6
Juli 30	406 B. Tauri	5.6	A.	1 46	297	−0.1	+0.9	26.2
Aug. 19	60 B. Piscium	6.0	A.	2 33	275	−2.2	−1.1	16.7
24	*q* Tauri	4.3	E.	1 38.5	61	−0.7	+2.0	21.7
24	20 Tauri	4.1	E.	1 56.5	97	−1.4	+1.1	21.7
24	16 Tauri	5.4	A.	2 26	220	−0.5	+2.0	21.7
24	*q* Tauri	4.3	A.	2 54	249	−1.3	+1.7	21.7
24	20 Tauri	4.1	A.	3 2	212	−0.7	+2.8	21.7
Sept. 11	27 Capricorni	6.1	E.	18 55	93	−1.6	+1.0	11.0
13	ι Aquarii	4.4	E.	0 23	0	+0.4	+2.0	12.2
21	38 B. Aurigae	6.5	A.	22 8.5	330	—	—	21.1
27	α Leonis	1.4	E.	14 49.5	200	—	—	26.8
27	α Leonis	1.4	A.	14 58	219	—	—	26.8
Okt. 11	96 Aquarii	5.7	E.	19 3.5	54	−1.2	+1.6	11.6
17	28 Tauri	5.2	A.	18 25.5	216	+0.6	+1.8	17.6
20	406 B. Tauri	5.6	A.	2 41.5	206	—	—	19.9
Nov. 8	60 B. Piscium	6.0	E.	21 52	68	−1.4	−0.2	10.3
13	*q* Tauri	4.3	E.	23 1.5	64	−1.6	+1.3	15.4
13	20 Tauri	4.1	E.	23 24	99	−2.1	−0.5	15.4
14	*q* Tauri	4.3	A.	0 27	255	−1.8	+0.1	15.4
14	20 Tauri	4.1	A.	0 39.5	222	−1.5	+1.6	15.4
19	35 B. Cancri	6.4	A.	0 5	277	−1.1	+1.2	20.4
21	α Leonis	1.4	E.	8 4	144	−0.5	−1.9	22.7
21	α Leonis	1.4	A.	9 7	284	−0.7	−1.8	22.8
Dez. 3	ι Aquarii	4.4	E.	18 56.5	124	—	—	5.8
9	μ Arietis	5.7	E.	23 25	76	−1.3	−0.7	12.0
16	5 B. Cancri	6.4	A.	0 32.5	236	−2.2	+3.0	18.0
18	45 Leonis	5.8	A.	22 39.5	262	−0.3	+2.0	20.9
19	ρ Leonis	3.8	E.	0 30.5	110	−1.0	+0.7	21.0
19	ρ Leonis	3.8	A.	1 41.5	314	−1.1	−0.6	21.1
19	49 Leonis	5.7	A.	3 33	264	−2.3	+0.5	21.1

0h Welt-Zeit	Mondbewegung			Lage des Mondäquators gegen den Erdäquator							
	☊	$L_{☾}$	$M_{☾}$	*i*		Δ		☊′		Δ − ☋	
1932	°	°	°	°		°		°		°	
Jan. −2	0.4434	150.0444	314.01	21.909	0	180.473	565	359.968	38	0.030	36
+8	359.9138	281.8083	84.66	21.909	0	179.908	565	0.006	38	359.994	35
18	359.3843	53.5723	215.31	21.909	1	179.343	564	0.044	38	359.959	35
28	358.8548	185.3363	345.96	21.910	0	178.779	565	0.082	38	359.924	35
Febr. 7	358.3252	317.1002	116.61	21.910	0	178.214	565	0.120	39	359.889	35
17	357.7957	88.8642	247.26	21.910	0	177.649	564	0.159	38	359.854	36
27	357.2662	220.6282	17.91	21.910	2	177.085	565	0.197	38	359.818	35
März 8	356.7366	352.3922	148.56	21.912	1	176.520	565	0.235	38	359.783	35
18	356.2071	124.1561	279.21	21.913	1	175.955	564	0.273	38	359.748	35
28	355.6775	255.9201	49.86	21.914	1	175.391	565	0.311	38	359.713	35
April 7	355.1480	27.6841	180.51	21.915	1	174.826	564	0.349	38	359.678	35
17	354.6185	159.4480	311.16	21.916	2	174.262	565	0.387	37	359.643	35
27	354.0889	291.2120	81.81	21.918	2	173.697	564	0.424	38	359.608	35
Mai 7	353.5594	62.9760	212.46	21.920	1	173.133	565	0.462	38	359.573	35
17	353.0298	194.7399	343.11	21.921	2	172.568	564	0.500	38	359.538	34
27	352.5003	326.5039	113.76	21.923	2	172.004	564	0.538	38	359.504	35
Juni 6	351.9708	98.2679	244.41	21.925	2	171.440	565	0.576	37	359.469	35
16	351.4412	230.0318	15.06	21.927	3	170.875	564	0.613	38	359.434	34
26	350.9117	1.7958	145.71	21.930	2	170.311	564	0.651	37	359.400	35
Juli 6	350.3821	133.5598	276.36	21.932	3	169.747	564	0.688	38	359.365	35
16	349.8526	265.3237	47.01	21.935	3	169.183	564	0.726	37	359.330	34
26	349.3231	37.0877	177.66	21.938	2	168.619	564	0.763	37	359.296	34
Aug. 5	348.7935	168.8517	308.31	21.940	3	168.055	564	0.800	38	359.262	35
15	348.2640	300.6156	78.96	21.943	4	167.491	564	0.838	37	359.227	34
25	347.7344	72.3796	209.61	21.947	3	166.927	563	0.875	37	359.193	34
Sept. 4	347.2049	204.1436	340.26	21.950	3	166.364	564	0.912	37	359.159	34
14	346.6754	335.9075	110.91	21.953	4	165.800	563	0.949	36	359.125	34
24	346.1458	107.6715	241.56	21.957	3	165.237	564	0.985	37	359.091	34
Okt. 4	345.6163	239.4355	12.21	21.960	4	164.673	563	1.022	37	359.057	34
14	345.0868	11.1994	142.86	21.964	4	164.110	563	1.059	36	359.023	33
24	344.5572	142.9634	273.51	21.968	4	163.547	563	1.095	37	358.990	34
Nov. 3	344.0277	274.7274	44.16	21.972	5	162.984	563	1.132	36	358.956	34
13	343.4981	46.4913	174.81	21.977	4	162.421	563	1.168	36	358.922	33
23	342.9686	178.2553	305.46	21.981	5	161.858	563	1.204	36	358.889	33
Dez. 3	342.4391	310.0193	76.11	21.986	4	161.295	563	1.240	36	358.856	33
13	341.9095	81.7832	206.76	21.990	5	160.732	562	1.276	36	358.823	33
23	341.3800	213.5472	337.41	21.995	5	160.170	563	1.312	36	358.790	33
33	340.8504	345.3112	108.06	22.000		159.607		1.348		358.757	

Mondkrater Mösting A. 1932

Tag	0h Welt-Zeit								
	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1932	s	s	s	″	″	″			
Jan. 16	− 3.95	+1.62		− 19.1	− 8.6		8.20015	+158	
17	− 2.33	+1.37	−0.25	− 27.7	− 8.7	− 0.1	8.20173	+293	+135
18	− 0.96	+1.00	−0.37	− 36.4	− 8.3	+ 0.4	8.20466	+407	+114
19	+ 0.04	+0.50	−0.50	− 44.7	− 7.3	+ 1.0	8.20873	+494	+ 87
20	+ 0.54	−0.05	−0.55	− 52.0	− 4.0	+ 3.3	8.21367	+544	+ 50
21	+ 0.49	−0.53	−0.48	− 56.0	+ 1.6	+ 5.6	8.21911	+555	+ 11
22	− 0.04	−0.80	−0.27	− 54.4	+ 9.5	+ 7.9	8.22466	+521	− 34
23	− 0.84	−0.81	−0.01	− 44.9	+18.1	+ 8.6	8.22987	+449	− 72
24	− 1.65	−0.68	+0.13	− 26.8	+25.6	+ 7.5	8.23436	+346	−103
25	− 2.33	−0.50	+0.18	− 1.2	+31.0	+ 5.4	8.23782	+221	−125
26	− 2.83	−0.40	+0.10	+ 29.8	+33.6	+ 2.6	8.24003	+ 99	−122
27	− 3.23	−0.43	−0.03	+ 63.4	+33.3	− 0.3	8.24102	− 13	−112
28	− 3.66	−0.60	−0.17	+ 96.7	+30.6	− 2.7	8.24089	−105	− 92
29	− 4.26	−0.92	−0.32	+127.3	+25.2	− 5.4	8.23984	−178	− 73
30	− 5.18	−1.35	−0.43	+152.5	+17.7	− 7.5	8.23806	−231	− 53
31	− 6.53			+170.2			8.23575		
Febr. 15	+ 0.34	+0.95		− 43.2	− 7.4		8.20432	+437	
16	+ 1.29	+0.45	−0.50	− 50.6	− 5.8	+ 1.6	8.20869	+549	+112
17	+ 1.74	−0.09	−0.54	− 56.4	− 2.0	+ 3.8	8.21418	+627	+ 78
18	+ 1.65	−0.55	−0.46	− 58.4	+ 4.4	+ 6.4	8.22045	+660	+ 33
19	+ 1.10	−0.83	−0.28	− 54.0	+13.0	+ 8.6	8.22705	+649	− 11
20	+ 0.27	−0.90	−0.07	− 41.0	+22.3	+ 9.3	8.23354	+579	− 70
21	− 0.63	−0.86	+0.04	− 18.7	+30.7	+ 8.4	8.23933	+451	−128
22	− 1.49	−0.82	+0.04	+ 12.0	+36.6	+ 5.9	8.24384	+290	−161
23	− 2.31	−0.87	−0.05	+ 48.6	+38.6	+ 2.0	8.24674	+103	−187
24	− 3.18	−1.03	−0.16	+ 87.2	+36.6	− 2.0	8.24777	− 79	−182
25	− 4.21	−1.33	−0.30	+123.8	+30.6	− 6.0	8.24698	−237	−158
26	− 5.54	−1.70	−0.37	+154.4	+21.3	− 9.3	8.24461	−357	−120
27	− 7.24	−2.05	−0.35	+175.7	+ 9.7	−11.6	8.24104	−434	− 77
28	− 9.29	−2.18	−0.13	+185.4	− 2.8	−12.5	8.23670	−469	− 35
29	−11.47			+182.6			8.23201		
März 16	+ 2.43	+0.02		− 58.6	+ 0.4		8.21314	+642	
17	+ 2.45	−0.33	−0.35	− 58.2	+ 6.9	+ 6.5	8.21956	+705	+ 63
18	+ 2.12	−0.58	−0.25	− 51.3	+15.2	+ 8.3	8.22661	+722	+ 17
19	+ 1.54	−0.72	−0.14	− 36.1	+24.3	+ 9.1	8.23383	+686	− 36
20	+ 0.82	−0.83	−0.11	− 11.8	+32.9	+ 8.6	8.24069	+576	−110
21	− 0.01	−0.98	−0.15	+ 21.1	+39.2	+ 6.3	8.24645	+410	−166
22	− 0.99	−1.24	−0.26	+ 60.3	+41.3	+ 2.1	8.25055	+200	−210
23	− 2.23		−0.41	+101.6		− 2.9	8.25255		−226

Tag	0^h Welt-Zeit								
	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1932	s	s	s	″	″	″			
März 23	−2.23	−1.65	−0.41	+101.6	+38.4	−2.9	8.25255	−26	−226
24	−3.88	−2.14	−0.49	+140.0	+30.1	−8.3	8.25229	−247	−221
25	−6.02	−2.63	−0.49	+170.1	+17.1	−13.0	8.24982	−423	−176
26	−8.65	−2.84	−0.21	+187.2	+1.8	−15.3	8.24559	−553	−130
27	−11.49	−2.56	+0.28	+189.0	−13.0	−14.8	8.24006	−618	−65
28	−14.05	−1.74	+0.82	+176.0	−24.1	−11.1	8.23388	−634	−16
29	−15.79	−0.65	+1.09	+151.9	−29.7	−5.6	8.22754	−611	+23
30	−16.44			+122.2			8.22143		
April 14	+2.44	−0.03		−52.7	+10.0		8.21827	+664	
15	+2.41	−0.19	−0.16	−42.7	+17.3	+7.3	8.22491	+706	+42
16	+2.22	−0.35	−0.16	−25.4	+25.1	+7.8	8.23197	+700	−6
17	+1.87	−0.57	−0.22	−0.3	+32.9	+7.8	8.23897	+636	−64
18	+1.30	−0.89	−0.32	+32.6	+38.5	+5.6	8.24533	+500	−136
19	+0.41	−1.37	−0.48	+71.1	+40.7	+2.2	8.25033	+313	−187
20	−0.96	−2.03	−0.66	+111.8	+37.2	−3.5	8.25346	+83	−230
21	−2.99	−2.78	−0.75	+149.0	+27.5	−9.7	8.25429	−159	−242
22	−5.77	−3.37	−0.59	+176.5	+12.3	−15.2	8.25270	−378	−219
23	−9.14	−3.44	−0.07	+188.8	−5.6	−17.9	8.24892	−558	−180
24	−12.58	−2.77	+0.67	+183.2	−21.3	−15.7	8.24334	−666	−108
25	−15.35	−1.53	+1.24	+161.9	−31.1	−9.8	8.23668	−711	−45
26	−16.88	−0.20	+1.33	+130.8	−33.7	−2.6	8.22957	−704	+7
27	−17.08	+0.82	+1.02	+97.1	−31.5	+2.2	8.22253	−645	+59
28	−16.26			+65.6			8.21608		
Mai 14	+2.08	0.00		−5.9	+26.1		8.23005	+622	
15	+2.08	−0.27	−0.27	+20.2	+31.7	+5.6	8.23627	+581	−41
16	+1.81	−0.69	−0.42	+51.9	+35.8	+4.1	8.24208	+497	−84
17	+1.12	−1.32	−0.63	+87.7	+36.7	+0.9	8.24705	+354	−143
18	−0.20	−2.16	−0.84	+124.4	+32.4	−4.3	8.25059	+163	−191
19	−2.36	−3.08	−0.92	+156.8	+21.9	−10.5	8.25222	−55	−218
20	−5.44	−3.69	−0.61	+178.7	+5.7	−16.2	8.25167	−280	−225
21	−9.13	−3.61	+0.08	+184.4	−12.6	−18.3	8.24887	−469	−189
22	−12.74	−2.66	+0.95	+171.8	−27.4	−14.8	8.24418	−612	−143
23	−15.40	−1.25	+1.41	+144.4	−35.0	−7.6	8.23806	−695	−83
24	−16.65	+0.09	+1.34	+109.4	−35.4	−0.4	8.23111	−710	−15
25	−16.56	+1.01	+0.92	+74.0	−31.4	+4.0	8.22401	−681	+29
26	−15.55	+1.53	+0.52	+42.6	−25.5	+5.9	8.21720	−600	+81
27	−14.02	+1.77	+0.24	+17.1	−19.9	+5.6	8.21120	−501	+99
28	−12.25			−2.8			8.20619		

Mondkrater Mösting A. 1932

Tag	0h Welt-Zeit								
	$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			$\log \sin p_k$		
1932									
Juni 12	+ 1.46 s	−0.12 s		+ 49.5″	+30.5″		8.23458	+443	
13	+ 1.34	−0.60	−0.48 s	+ 80.0	+32.0	+ 1.5″	8.23901	+386	− 57
14	+ 0.74	−1.31	−0.71	+112.0	+30.5	− 1.5	8.24287	+287	− 99
15	− 0.57	−2.20	−0.89	+142.5	+24.5	− 6.0	8.24574	+151	−136
16	− 2.77	−3.08	−0.88	+167.0	+12.9	−11.6	8.24725	− 14	−165
17	− 5.85	−3.56	−0.48	+179.9	− 3.0	−15.9	8.24711	−191	−177
18	− 9.41	−3.23	+0.33	+176.9	−19.6	−16.6	8.24520	−369	−178
19	−12.64	−2.15	+1.08	+157.3	−31.6	−12.0	8.24151	−503	−134
20	−14.79	−0.81	+1.34	+125.7	−36.6	− 5.0	8.23648	−603	−100
21	−15.60	+0.34	+1.15	+ 89.1	−35.0	+ 1.6	8.23045	−649	− 46
22	−15.26	+1.08	+0.74	+ 54.1	−30.1	+ 4.9	8.22396	−638	+ 11
23	−14.18	+1.48	+0.40	+ 24.0	−24.0	+ 6.1	8.21758	−587	+ 51
24	−12.70	+1.67	+0.19	0.0	−18.3	+ 5.7	8.21171	−494	+ 93
25	−11.03	+1.72	+0.05	− 18.3	−13.2	+ 5.1	8.20677	−376	+118
26	− 9.31			− 31.5			8.20301		
Juli 12	− 0.77 s	−1.50 s		+140.7″	+22.6″		8.23971	+131	
13	− 2.27	−2.30	−0.80 s	+163.3	+14.0	− 8.6″	8.24102	+ 43	− 88
14	− 4.57	−2.93	−0.63	+177.3	+ 1.4	−12.6	8.24145	− 59	−102
15	− 7.50	−3.01	−0.08	+178.7	−13.1	−14.5	8.24086	−180	−121
16	−10.51	−2.38	+0.63	+165.6	−26.1	−13.0	8.23906	−302	−122
17	−12.89	−1.30	+1.08	+139.5	−33.9	− 7.8	8.23604	−406	−104
18	−14.19	−0.20	+1.10	+105.6	−35.8	− 1.9	8.23198	−496	− 90
19	−14.39	+0.65	+0.85	+ 69.8	−33.1	+ 2.7	8.22702	−543	− 47
20	−13.74	+1.16	+0.51	+ 36.7	−27.9	+ 5.2	8.22159	−548	− 5
21	−12.58	+1.45	+0.29	+ 8.8	−22.0	+ 5.9	8.21611	−516	+ 32
22	−11.13	+1.56	+0.11	− 13.2	−16.5	+ 5.5	8.21095	−445	+ 71
23	− 9.57	+1.59	+0.03	− 29.7	−11.7	+ 4.8	8.20650	−344	+101
24	− 7.98	+1.55	−0.04	− 41.4	− 8.0	+ 3.7	8.20306	−220	+124
25	− 6.43	+1.45	−0.10	− 49.4	− 5.1	+ 2.9	8.20086	− 86	+134
26	− 4.98			− 54.5			8.20000		
Aug. 10	− 5.15 s	−2.47 s		+180.6″	+ 1.7″		8.23818	−133	
11	− 7.62	−2.60	−0.13 s	+182.3	−11.2	−12.9″	8.23685	−189	− 56
12	−10.22	−2.16	+0.44	+171.1	−23.0	−11.8	8.23496	−248	− 59
13	−12.38	−1.28	+0.88	+148.1	−31.2	− 8.2	8.23248	−307	− 59
14	−13.66	−0.31	+0.97	+116.9	−34.3	− 3.1	8.22941	−365	− 58
15	−13.97	+0.50	+0.81	+ 82.6	−33.4	+ 0.9	8.22576	−412	− 47
16	−13.47	+1.01	+0.51	+ 49.2	−29.6	+ 3.8	8.22164	−442	− 30
17	−12.46		+0.31	+ 19.6		+ 5.0	8.21722		− 4

Tag	0^h Welt-Zeit								
	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
1932									
Aug. 17	−12.46 ˢ	+1.32 ˢ	+0.31 ˢ	+ 19.6″	−24.6″	+5.0″	8.21722	−446	− 4
18	−11.14	+1.45	+0.13	− 5.0	−19.3	+5.3	8.21276	−419	+ 27
19	− 9.69	+1.50	+0.05	− 24.3	−14.2	+5.1	8.20857	−369	+ 50
20	− 8.19	+1.50	0.00	− 38.5	− 9.9	+4.3	8.20488	−283	+ 86
21	− 6.69	+1.45	−0.05	− 48.4	− 6.4	+3.5	8.20205	−177	+106
22	− 5.24	+1.35	−0.10	− 54.8	− 3.8	+2.6	8.20028	− 52	+125
23	− 3.89	+1.22	−0.13	− 58.6	− 1.6	+2.2	8.19976	+ 82	+134
24	− 2.67			− 60.2			8.20058		
Sept. 9	−13.31 ˢ	−1.17 ˢ		+153.6″	−31.0″		8.23107	−379	
10	−14.48	−0.20	+0.97 ˢ	+122.6	−33.9	−2.9″	8.22728	−382	− 3
11	−14.68	+0.60	+0.80	+ 88.7	−32.9	+1.0	8.22346	−389	− 7
12	−14.08	+1.09	+0.49	+ 55.8	−29.7	+3.2	8.21957	−384	+ 5
13	−12.99	+1.37	+0.28	+ 26.1	−25.1	+4.6	8.21573	−373	+ 11
14	−11.62	+1.48	+0.11	+ 1.0	−20.4	+4.7	8.21200	−357	+ 16
15	−10.14	+1.51	+0.03	− 19.4	−15.7	+4.7	8.20843	−327	+ 30
16	− 8.63	+1.48	−0.03	− 35.1	−11.3	+4.4	8.20516	−277	+ 50
17	− 7.15	+1.42	−0.06	− 46.4	− 7.7	+3.6	8.20239	−211	+ 66
18	− 5.73	+1.36	−0.06	− 54.1	− 4.5	+3.2	8.20028	−124	+ 87
19	− 4.37	+1.28	−0.08	− 58.6	− 1.9	+2.6	8.19904	− 20	+104
20	− 3.09	+1.17	−0.11	− 60.5	0.0	+1.9	8.19884	+106	+126
21	− 1.92	+1.01	−0.16	− 60.5	+ 1.7	+1.7	8.19990	+231	+125
22	− 0.91	+0.84	−0.17	− 58.8	+ 3.5	+1.8	8.20221	+363	+132
23	− 0.07			− 55.3			8.20584		
Okt. 8	−16.13 ˢ	+0.63 ˢ		+ 91.2″	−34.4″		8.22478	−508	
9	−15.50	+1.21	+0.58 ˢ	+ 56.8	−30.4	+4.0″	8.21970	−459	+ 49
10	−14.29	+1.51	+0.30	+ 26.4	−25.4	+5.0	8.21511	−410	+ 49
11	−12.78	+1.60	+0.09	+ 1.0	−20.4	+5.0	8.21101	−359	+ 51
12	−11.18	+1.60	0.00	− 19.4	−15.7	+4.7	8.20742	−307	+ 52
13	− 9.58	+1.53	−0.07	− 35.1	−11.6	+4.1	8.20435	−253	+ 54
14	− 8.05	+1.45	−0.08	− 46.7	− 7.9	+3.7	8.20182	−198	+ 55
15	− 6.60	+1.35	−0.10	− 54.6	− 4.6	+3.3	8.19984	−135	+ 63
16	− 5.25	+1.27	−0.08	− 59.2	− 1.9	+2.7	8.19849	− 63	+ 72
17	− 3.98	+1.17	−0.10	− 61.1	+ 0.4	+2.3	8.19786	+ 24	+ 87
18	− 2.81	+1.10	−0.07	− 60.7	+ 2.3	+1.9	8.19810	+118	+ 94
19	− 1.71	+1.01	−0.09	− 58.4	+ 4.0	+1.7	8.19928	+231	+113
20	− 0.70	+0.93	−0.08	− 54.4	+ 5.8	+1.8	8.20159	+345	+114
21	+ 0.23	+0.83	−0.10	− 48.6	+ 8.2	+2.4	8.20504	+464	+119
22	+ 1.06			− 40.4			8.20968		

Mondkrater Mösting A. 1932

Tag	0h Welt-Zeit								
	$\alpha_☾ - \alpha_k$			$\delta_☾ - \delta_k$			log sin p_k		
1932									
Nov. 7	−14.24s	+1.66s		−2.4″	−21.4″		8.21320	−474	
8	−12.58	+1.68	+0.02s	−23.8	−16.0	+5.4″	8.20846	−381	+93
9	−10.90	+1.60	−0.08	−39.8	−11.3	+4.7	8.20465	−297	+84
10	−9.30	+1.49	−0.11	−51.1	−7.4	+3.9	8.20168	−213	+84
11	−7.81	+1.38	−0.11	−58.5	−4.2	+3.2	8.19955	−135	+78
12	−6.43	+1.25	−0.13	−62.7	−1.2	+3.0	8.19820	−62	+73
13	−5.18	+1.13	−0.12	−63.9	+1.3	+2.5	8.19758	+4	+66
14	−4.05	+1.05	−0.08	−62.6	+3.4	+2.1	8.19762	+76	+72
15	−3.00	+0.99	−0.06	−59.2	+5.5	+2.1	8.19838	+150	+74
16	−2.01	+0.99	0.00	−53.7	+7.2	+1.7	8.19988	+233	+83
17	−1.02	+0.98	−0.01	−46.5	+9.0	+1.8	8.20221	+321	+88
18	−0.04	+0.98	0.00	−37.5	+11.1	+2.1	8.20542	+412	+91
19	+0.94	+0.93	−0.05	−26.4	+13.6	+2.5	8.20954	+502	+90
20	+1.87	+0.82	−0.11	−12.8	+17.0	+3.4	8.21456	+593	+91
21	+2.69			+4.2			8.22049		
Dez. 6	−12.07s	+1.59s		−45.0″	−12.4″		8.20827	−432	
7	−10.48	+1.51	−0.08s	−57.4	−7.6	+4.8″	8.20395	−310	+122
8	−8.97	+1.39	−0.12	−65.0	−3.7	+3.9	8.20085	−202	+108
9	−7.58	+1.25	−0.14	−68.7	−0.5	+3.2	8.19883	−92	+110
10	−6.33	+1.11	−0.14	−69.2	+2.2	+2.7	8.19791	0	+92
11	−5.22	+0.99	−0.12	−67.0	+4.7	+2.5	8.19791	+82	+82
12	−4.23	+0.91	−0.08	−62.3	+6.8	+2.1	8.19873	+146	+64
13	−3.32	+0.89	−0.02	−55.5	+9.0	+2.2	8.20019	+206	+60
14	−2.43	+0.92	+0.03	−46.5	+11.0	+2.0	8.20225	+260	+54
15	−1.51	+0.98	+0.06	−35.5	+13.0	+2.0	8.20485	+313	+53
16	−0.53	+1.01	+0.03	−22.5	+14.9	+1.9	8.20798	+367	+54
17	+0.48	+0.99	−0.02	−7.6	+17.0	+2.1	8.21165	+423	+56
18	+1.47	+0.91	−0.08	+9.4	+19.4	+2.4	8.21588	+475	+52
19	+2.38	+0.73	−0.18	+28.8	+22.2	+2.8	8.22063	+521	+46
20	+3.11			+51.0			8.22584		

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT I

		h	m	
Jan.	0	8	37.0	E.
	2	3	5.3	E.
	3	21	33.7	E.
	5	16	2.1	E.
	7	10	30.5	E.
	9	4	58.9	E.
	10	23	27.3	E.
	12	17	55.7	E.
	14	12	24.2	E.
	16	6	52.6	E.
	18	1	21.2	E.
	19	19	49.5	E.
	21	14	18.1	E.
	23	8	46.5	E.
	25	3	15.0	E.
	26	21	43.5	E.
	28	16	12.1	E.
	30	10	40.5	E.
Febr.	1	5	9.1	E.
	2	23	37.6	E.
	4	18	6.2	E.
	6	12	34.7	E.
	8	9	21.7	A.
	10	3	50.2	A.
	11	22	18.9	A.
	13	16	47.4	A.
	15	11	16.1	A.
	17	5	44.6	A.
	19	0	13.4	A.
	20	18	42.0	A.
	22	13	10.7	A.
	24	7	39.4	A.
	26	2	8.0	A.
	27	20	36.7	A.
	29	15	5.4	A.
März	2	9	34.1	A.
	4	4	2.9	A.
	5	22	31.5	A.
	7	17	0.3	A.
	9	11	29.0	A.
	11	5	57.8	A.
	13	0	26.5	A.
	14	18	55.3	A.
	16	13	24.0	A.
	18	7	52.9	A.
	20	2	21.6	A.
	21	20	50.4	A.
	23	15	19.2	A.

TRABANT I

		h	m	
März	25	9	48.0	A.
	27	4	16.8	A.
	28	22	45.6	A.
	30	17	14.4	A.
April	1	11	43.3	A.
	3	6	12.0	A.
	5	0	40.9	A.
	6	19	9.7	A.
	8	13	38.6	A.
	10	8	7.4	A.
	12	2	36.3	A.
	13	21	5.0	A.
	15	15	33.9	A.
	17	10	2.7	A.
	19	4	31.6	A.
	20	23	0.4	A.
	22	17	29.3	A.
	24	11	58.1	A.
	26	6	27.0	A.
	28	0	55.8	A.
	29	19	24.7	A.
Mai	1	13	53.5	A.
	3	8	22.4	A.
	5	2	51.2	A.
	6	21	20.1	A.
	8	15	48.9	A.
	10	10	17.8	A.
	12	4	46.6	A.
	13	23	15.5	A.
	15	17	44.3	A.
	17	12	13.2	A.
	19	6	42.0	A.
	21	1	10.9	A.
	22	19	39.7	A.
	24	14	8.6	A.
	26	8	37.4	A.
	28	3	6.2	A.
	29	21	35.0	A.
	31	16	3.9	A.
Juni	2	10	32.6	A.
	4	5	1.5	A.
	5	23	30.2	A.
	7	17	59.1	A.
	9	12	27.8	A.
	11	6	56.7	A.
	13	1	25.4	A.
	14	19	54.3	A.
	16	14	23.0	A.

TRABANT I

		h	m	
Juni	18	8	51.8	A.
	20	3	20.6	A.
	21	21	49.4	A.
	23	16	18.1	A.
	25	10	46.9	A.
	27	5	15.6	A.
	28	23	44.4	A.
	30	18	13.1	A.
Juli	2	12	41.9	A.
	4	7	10.5	A.
	6	1	39.3	A.
	7	20	8.0	A.
	9	14	36.7	A.
	11	9	5.4	A.
	13	3	34.1	A.
	14	22	2.8	A.
	16	16	31.5	A.
	18	11	0.1	A.
	20	5	28.8	A.
	21	23	57.4	A.
Sept.	12	23	56.7	E.
	14	18	25.2	E.
	16	12	53.6	E.
	18	7	22.0	E.
	20	1	50.5	E.
	21	20	18.9	E.
	23	14	47.3	E.
	25	9	15.7	E.
	27	3	44.1	E.
	28	22	12.5	E.
	30	16	40.9	E.
Okt.	2	11	9.3	E.
	4	5	37.6	E.
	6	0	6.0	E.
	7	18	34.4	E.
	9	13	2.7	E.
	11	7	31.1	E.
	13	1	59.4	E.
	14	20	27.7	E.
	16	14	56.1	E.
	18	9	24.4	E.
	20	3	52.7	E.
	21	22	21.0	E.
	23	16	49.3	E.
	25	11	17.6	E.
	27	5	45.9	E.
	29	0	14.2	E.
	30	18	42.5	E.

TRABANT I

		h	m	
Nov.	1	13	10.7	E.
	3	7	39.0	E.
	5	2	7.3	E.
	6	20	35.6	E.
	8	15	3.8	E.
	10	9	32.1	E.
	12	4	0.3	E.
	13	22	28.6	E.
	15	16	56.8	E.
	17	11	25.0	E.
	19	5	53.3	E.
	21	0	21.5	E.
	22	18	49.7	E.
	24	13	17.9	E.
	26	7	46.2	E.
	28	2	14.4	E.
	29	20	42.6	E.
Dez.	1	15	10.8	E.
	3	9	39.0	E.
	5	4	7.3	E.
	6	22	35.4	E.
	8	17	3.7	E.
	10	11	31.9	E.
	12	6	0.1	E.
	14	0	28.3	E.
	15	18	56.5	E.
	17	13	24.7	E.
	19	7	52.9	E.
	21	2	21.1	E.
	22	20	49.3	E.
	24	15	17.5	E.
	26	9	45.8	E.
	28	4	13.9	E.
	29	22	42.2	E.
	31	17	10.4	E.

TRABANT II

		h	m	
Jan.	0	18	7.0	E.
	4	7	24.3	E.
	7	20	42.1	E.
	11	9	59.4	E.
	14	23	17.0	E.
	18	12	34.4	E.
	22	1	52.0	E.
	25	15	9.3	E.
	29	4	26.9	E.

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT II

Datum	h	m	
Febr. 1	17	44.2	E.
5	7	1.7	E.
8	23	11.8	A.
12	12	29.2	A.
16	1	46.4	A.
19	15	3.8	A.
23	4	21.1	A.
26	17	38.4	A.
März 1	6	55.8	A.
4	20	13.1	A.
8	9	30.4	A.
11	22	47.7	A.
15	12	5.1	A.
19	1	22.3	A.
22	14	39.7	A.
26	3	57.0	A.
29	17	14.3	A.
April 2	6	31.6	A.
5	19	48.9	A.
9	9	6.3	A.
12	22	23.6	A.
16	11	40.9	A.
20	0	58.2	A.
23	14	15.5	A.
27	3	32.9	A.
30	16	50.2	A.
Mai 4	6	7.5	A.
7	19	24.8	A.
11	8	42.1	A.
14	21	59.5	A.
18	11	16.8	A.
22	0	34.2	A.
25	13	51.5	A.
29	3	8.9	A.
Juni 1	16	26.2	A.
5	5	43.6	A.
8	19	0.9	A.
12	8	18.3	A.
15	21	35.7	A.
19	10	53.1	A.
23	0	10.5	A.
26	13	27.9	A.
30	2	45.3	A.
Juli 3	16	2.8	A.
7	5	20.2	A.
10	18	37.7	A.
14	7	55.2	A.
17	21	12.7	A.

TRABANT II

Datum	h	m	
Juli 21	10	30.2	A.
Sept. 12	15	5.7	E.
16	4	23.8	E.
19	17	41.3	E.
23	6	59.4	E.
26	20	17.0	E.
30	9	35.1	E.
Okt. 3	22	52.7	E.
7	12	10.9	E.
11	1	28.5	E.
14	14	46.7	E.
18	4	4.3	E.
21	17	22.6	E.
25	6	40.1	E.
28	19	58.5	E.
Nov. 1	9	16.0	E.
4	22	34.4	E.
8	11	51.9	E.
12	1	10.3	E.
15	14	27.8	E.
19	3	46.2	E.
22	17	3.7	E.
26	6	22.1	E.
29	19	39.6	E.
Dez. 3	8	58.1	E.
6	22	15.5	E.
10	11	34.0	E.
14	0	51.4	E.
17	14	9.9	E.
21	3	27.3	E.
24	16	45.8	E.
28	6	3.2	E.
31	19	21.7	E.

TRABANT III

Datum	h	m	
Jan. 3	7	37.6	E.
10	11	36.0	E.
17	15	34.6	E.
24	19	32.6	E.
31	23	30.8	E.
Febr. 8	7	8.7	A.
15	11	7.5	A.
22	15	7.4	A.
29	19	6.6	A.
März 7	23	5.9	A.
15	3	4.8	A.

TRABANT III

Datum	h	m	
März 22	3	25.3	E.
22	7	3.7	A.
29	7	24.8	E.
29	11	3.1	A.
April 5	11	24.6	E.
5	15	2.7	A.
12	15	25.3	E.
12	19	3.1	A.
19	19	25.3	E.
19	23	2.8	A.
26	23	25.2	E.
27	3	2.6	A.
Mai 4	3	24.7	E.
4	7	1.7	A.
11	7	24.1	E.
11	11	0.9	A.
18	11	23.9	E.
18	15	0.4	A.
25	15	23.8	E.
25	19	0.0	A.
Juni 1	19	24.4	E.
1	23	0.2	A.
8	23	24.4	E.
9	2	59.7	A.
16	3	24.1	E.
16	6	59.0	A.
23	7	23.2	E.
23	10	57.8	A.
30	14	56.4	A.
Juli 7	18	55.4	A.
14	22	54.4	A.
22	2	54.0	A.
Sept. 17	7	11.4	E.
24	11	9.6	E.
Okt. 1	15	7.3	E.
8	19	5.0	E.
15	23	2.9	E.
23	3	0.9	E.
23	6	26.7	A.
30	6	59.5	E.
30	10	24.6	A.
Nov. 6	10	57.3	E.
6	14	21.8	A.
13	14	55.0	E.
13	18	18.7	A.
20	18	52.0	E.
20	22	15.2	A.
27	22	49.1	E.

TRABANT III

Datum	h	m	
Nov. 28	2	11.6	A.
Dez. 5	2	46.7	E.
5	6	8.5	A.
12	6	44.2	E.
12	10	5.4	A.
19	10	42.5	E.
19	14	2.9	A.
26	14	40.1	E.
26	17	59.9	A.

TRABANT IV

Datum	h	m	
Jan. 7	19	35.1	E.
8	0	27.4	A.
24	13	35.6	E.
Febr. 10	12	30.9	A.
27	6	32.8	A.
März 14	19	41.3	E.
15	0	35.2	A.
31	13	44.6	E.
31	18	38.3	A.
April 17	7	47.7	E.
17	12	40.7	A.
Mai 4	1	51.4	E.
4	6	43.3	A.
20	19	55.1	E.
21	0	45.8	A.
Juni 6	13	58.2	E.
6	18	47.1	A.
23	8	1.5	E.
23	12	48.5	A.
Juli 10	2	4.3	E.
10	6	49.2	A.
Sept. 15	2	11.4	E.
Okt. 1	20	12.2	E.
2	0	40.4	A.
18	14	12.5	E.
18	18	36.5	A.
Nov. 4	8	12.0	E.
4	12	31.5	A.
21	2	11.9	E.
21	6	26.3	A.
Dez. 7	20	11.4	E.
8	0	20.4	A.
24	14	10.7	E.
24	18	14.0	A.

0h Welt-Zeit		α	β	p_a	a	b	U'	B'	P'
1932									
Jan.	0	15.22	13.88	0.00	34.29	+13.25	130.107	+22.298	+17.657
	4	15.20	13.86	0.00	34.24	13.16	130.234	22.266	17.704
	8	15.19	13.85	0.00	34.21	13.07	130.360	22.234	17.752
	12	15.18	13.84	0.00	34.19	12.99	130.487	22.202	17.800
	16	15.17	13.83	0.00	34.18	12.91	130.613	22.170	17.847
	20	15.17	13.83	0.00	34.18	+12.83	130.740	+22.138	+17.895
	24	15.18	13.84	0.00	34.20	12.76	130.866	22.106	17.942
	28	15.19	13.85	0.00	34.23	12.69	130.993	22.074	17.989
Febr.	1	15.21	13.86	0.00	34.27	12.63	131.119	22.041	18.036
	5	15.24	13.88	0.00	34.33	12.57	131.245	22.008	18.083
	9	15.27	13.91	0.00	34.40	+12.52	131.372	+21.975	+18.130
	13	15.31	13.94	−0.01	34.48	12.47	131.498	21.942	18.177
	17	15.35	13.97	0.01	34.57	12.42	131.624	21.909	18.224
	21	15.40	14.01	0.01	34.68	12.38	131.750	21.876	18.271
	25	15.45	14.06	0.01	34.80	12.34	131.876	21.843	18.318
	29	15.51	14.11	−0.01	34.93	+12.31	132.002	+21.810	+18.364
März	4	15.57	14.16	0.02	35.07	12.28	132.128	21.776	18.411
	8	15.64	14.22	0.02	35.22	12.27	132.254	21.743	18.457
	12	15.71	14.28	0.02	35.39	12.26	132.380	21.709	18.503
	16	15.79	14.35	0.03	35.57	12.26	132.506	21.676	18.549
	20	15.87	14.42	−0.03	35.75	+12.25	132.632	+21.642	+18.595
	24	15.96	14.50	0.03	35.94	12.25	132.757	21.608	18.641
	28	16.05	14.58	0.03	36.14	12.27	132.883	21.574	18.687
April	1	16.14	14.66	0.03	36.35	12.29	133.008	21.540	18.733
	5	16.24	14.75	0.04	36.57	12.31	133.134	21.506	18.779
	9	16.34	14.84	−0.04	36.81	+12.34	133.259	+21.472	+18.825
	13	16.45	14.93	0.04	37.05	12.37	133.385	21.438	18.870
	17	16.56	15.03	0.04	37.29	12.41	133.510	21.403	18.915
	21	16.67	15.13	0.04	37.54	12.46	133.636	21.369	18.960
	25	16.78	15.23	0.04	37.79	12.52	133.761	21.334	19.005
	29	16.89	15.33	−0.04	38.04	+12.58	133.887	+21.299	+19.050
Mai	3	17.00	15.43	0.04	38.30	12.65	134.012	21.264	19.095
	7	17.11	15.53	0.04	38.56	12.73	134.138	21.229	19.140
	11	17.23	15.64	0.04	38.82	12.81	134.263	21.194	19.185
	15	17.35	15.75	0.04	39.08	12.90	134.388	21.159	19.230
	19	17.46	15.85	−0.04	39.33	+12.99	134.513	+21.124	+19.275
	23	17.57	15.95	0.04	39.58	13.09	134.638	21.089	19.319
	27	17.68	16.05	0.03	39.83	13.19	134.763	21.054	19.363
	31	17.78	16.15	0.03	40.07	13.30	134.888	21.019	19.407
Juni	4	17.88	16.24	0.03	40.30	13.41	135.013	20.984	19.451
	8	17.98	16.33	−0.02	40.52	+13.52	135.138	+20.948	+19.495
	12	18.08	16.42	0.02	40.73	13.63	135.263	20.912	19.539
	16	18.17	16.50	0.02	40.92	13.75	135.388	20.876	19.583
	20	18.25	16.58	0.02	41.10	13.86	135.513	20.840	19.627
	24	18.32	16.65	0.01	41.27	13.97	135.638	20.804	19.671
	28	18.39	16.71	0.01	41.42	14.08	135.762	20.768	19.714
Juli	2	18.45	16.76	−0.01	41.55	+14.19	135.887	+20.732	+19.758

Saturn und Saturnsring 1932

0^h Welt-Zeit	α	β	p_a	a	b	U'	B'	P'
1932	″	″	″	″	″	°	°	°
Juli 2	18.45	16.76	−0.01	41.55	+14.19	135.887	+20.732	+19.758
6	18.50	16.81	0.00	41.66	14.30	136.011	20.695	19.801
10	18.54	16.85	0.00	41.75	14.40	136.136	20.659	19.844
14	18.57	16.88	0.00	41.82	14.50	136.260	20.622	19.887
18	18.59	16.90	0.00	41.87	14.59	136.385	20.586	19.930
22	18.61	16.92	0.00	41.90	+14.67	136.509	+20.549	+19.973
26	18.61	16.92	0.00	41.90	14.74	136.634	20.512	20.016
30	18.60	16.91	0.00	41.88	14.81	136.758	20.475	20.059
Aug. 3	18.58	16.89	0.00	41.84	14.87	136.883	20.438	20.102
7	18.55	16.87	0.00	41.78	14.91	137.007	20.401	20.145
11	18.51	16.84	+0.01	41.70	+14.95	137.131	+20.364	+20.187
15	18.47	16.80	0.01	41.59	14.98	137.255	20.326	20.229
19	18.41	16.75	0.01	41.46	15.00	137.379	20.289	20.271
23	18.35	16.70	0.01	41.32	15.01	137.503	20.252	20.313
27	18.28	16.64	0.02	41.16	15.00	137.627	20.215	20.355
31	18.20	16.57	+0.02	40.99	+14.98	137.751	+20.177	+20.397
Sept. 4	18.11	16.49	0.02	40.80	14.95	137.875	20.139	20.439
8	18.02	16.41	0.02	40.60	14.91	137.999	20.101	20.481
12	17.92	16.32	0.03	40.38	14.87	138.123	20.063	20.523
16	17.82	16.23	0.03	40.15	14.81	138.247	20.025	20.565
20	17.71	16.14	+0.03	39.91	+14.74	138.371	+19.987	+20.606
24	17.60	16.04	0.03	39.67	14.67	138.494	19.949	20.647
28	17.48	15.94	0.04	39.42	14.59	138.618	19.911	20.688
Okt. 2	17.36	15.84	0.04	39.17	14.50	138.741	19.872	20.729
6	17.25	15.74	0.04	38.91	14.40	138.865	19.834	20.770
10	17.14	15.64	+0.04	38.65	+14.30	138.988	+19.795	+20.811
14	17.03	15.53	0.04	38.39	14.19	139.112	19.757	20.852
18	16.93	15.42	0.04	38.13	14.08	139.235	19.718	20.893
22	16.82	15.31	0.04	37.88	13.97	139.359	19.679	20.934
26	16.71	15.21	0.04	37.63	13.85	139.482	19.640	20.974
30	16.60	15.11	+0.04	37.38	+13.73	139.605	+19.601	+21.014
Nov. 3	16.49	15.01	0.04	37.14	13.60	139.728	19.562	21.054
7	16.39	14.91	0.04	36.90	13.47	139.851	19.523	21.094
11	16.29	14.82	0.04	36.67	13.34	139.974	19.483	21.134
15	16.19	14.73	0.03	36.45	13.21	140.097	19.444	21.174
19	16.09	14.64	+0.03	36.24	+13.08	140.220	+19.405	+21.214
23	16.00	14.56	0.03	36.03	12.95	140.343	19.365	21.254
27	15.92	14.48	0.03	35.84	12.82	140.466	19.326	21.294
Dez. 1	15.84	14.40	0.02	35.66	12.69	140.589	19.287	21.333
5	15.76	14.33	0.02	35.49	12.56	140.712	19.247	21.372
9	15.69	14.26	+0.02	35.33	+12.43	140.835	+19.207	+21.411
13	15.62	14.20	0.02	35.18	12.30	140.958	19.167	21.450
17	15.56	14.14	0.01	35.04	12.17	141.081	19.127	21.489
21	15.50	14.09	0.01	34.91	12.04	141.204	19.087	21.528
25	15.45	14.04	0.01	34.80	11.92	141.326	19.047	21.567
29	15.41	14.00	0.01	34.70	11.80	141.449	19.007	21.606
33	15.37	13.96	+0.01	34.61	+11.68	141.572	+18.967	+21.645

0h Welt-Zeit	U	Δ	B	Δ	P	Δ
1932						
Jan. 0	170°.529	242	+22°.734	66	+7°.196	3
2	170.771	243	22.668	67	7.199	3
4	171.014	243	22.601	68	7.202	3
6	171.257	244	22.533	68	7.205	2
8	171.501	245	22.465	69	7.207	3
10	171.746	245	+22.396	69	+7.210	2
12	171.991	245	22.327	70	7.212	2
14	172.236	245	22.257	70	7.214	2
16	172.481	245	22.187	71	7.216	2
18	172.726	245	22.116	71	7.218	2
20	172.971	244	+22.045	71	+7.220	2
22	173.215	243	21.974	71	7.222	1
24	173.458	243	21.903	72	7.223	2
26	173.701	242	21.831	72	7.225	1
28	173.943	241	21.759	72	7.226	1
30	174.184	239	+21.687	72	+7.227	1
Febr. 1	174.423	238	21.615	72	7.228	1
3	174.661	236	21.543	71	7.229	1
5	174.897	234	21.472	72	7.230	1
7	175.131	233	21.400	71	7.231	0
9	175.364	231	+21.329	71	+7.231	0
11	175.595	229	21.258	71	7.231	0
13	175.824	227	21.187	70	7.231	0
15	176.051	224	21.117	70	7.231	0
17	176.275	221	21.047	69	7.231	0
19	176.496	219	+20.978	69	+7.231	1
21	176.715	216	20.909	68	7.230	0
23	176.931	213	20.841	67	7.230	1
25	177.144	209	20.774	67	7.229	1
27	177.353	206	20.707	66	7.228	1
29	177.559	203	+20.641	65	+7.227	1
März 2	177.762	199	20.576	65	7.226	1
4	177.961	196	20.511	63	7.225	1
6	178.157	192	20.448	62	7.224	1
8	178.349	188	20.386	61	7.223	1
10	178.537	184	+20.325	60	+7.222	1
12	178.721	180	20.265	59	7.221	1
14	178.901	175	20.206	57	7.220	2
16	179.076	171	20.149	56	7.218	1
18	179.247	166	20.093	54	7.217	1
20	179.413	162	+20.039	53	+7.216	1
22	179.575	157	19.986	52	7.215	2
24	179.732	152	19.934	50	7.213	1
26	179.884	147	19.884	48	7.212	2
28	180.031	142	19.836	47	7.210	1
30	180.173	137	19.789	45	7.209	2
April 1	180.310		+19.744		+7.207	

0h Welt-Zeit	U	Δ	B	Δ	P	Δ
1932						
April 1	180°.310	131	+19°.744	43	+7°.207	2
3	180.441	126	19.701	41	7.205	1
5	180.567	121	19.660	40	7.204	1
7	180.688	115	19.620	38	7.203	1
9	180.803	109	19.582	36	7.202	2
11	180.912	103	+19.546	34	+7.200	1
13	181.015	98	19.512	31	7.199	1
15	181.113	92	19.481	29	7.198	1
17	181.205	86	19.452	27	7.197	1
19	181.291	80	19.425	25	7.196	1
21	181.371	73	+19.400	23	+7.195	1
23	181.444	67	19.377	21	7.194	0
25	181.511	61	19.356	18	7.194	1
27	181.572	55	19.338	16	7.193	1
29	181.627	48	19.322	14	7.192	1
Mai 1	181.675	42	+19.308	12	+7.191	0
3	181.717	36	19.296	9	7.191	1
5	181.753	29	19.287	7	7.190	0
7	181.782	23	19.280	5	7.190	0
9	181.805	16	19.275	2	7.190	0
11	181.821	10	+19.273	0	+7.190	0
13	181.831	3	19.273	3	7.190	0
15	181.834	3	19.276	5	7.190	0
17	181.831	10	19.281	7	7.190	1
19	181.821	16	19.288	10	7.191	0
21	181.805	22	+19.298	12	+7.191	1
23	181.783	29	19.310	14	7.192	0
25	181.754	35	19.324	17	7.192	1
27	181.719	42	19.341	19	7.193	0
29	181.677	47	19.360	21	7.193	1
31	181.630	53	+19.381	23	+7.194	1
Juni 2	181.577	59	19.404	25	7.195	1
4	181.518	65	19.429	28	7.196	1
6	181.453	70	19.457	29	7.197	1
8	181.383	76	19.486	31	7.198	1
10	181.307	82	+19.517	33	+7.199	2
12	181.225	87	19.550	35	7.201	1
14	181.138	92	19.585	37	7.202	1
16	181.046	97	19.622	39	7.203	1
18	180.949	102	19.661	40	7.204	2
20	180.847	107	+19.701	42	+7.206	1
22	180.740	111	19.743	43	7.207	2
24	180.629	115	19.786	45	7.209	1
26	180.514	119	19.831	46	7.210	2
28	180.395	123	19.877	47	7.212	1
30	180.272	127	19.924	49	7.213	2
Juli 2	180.145		+19.973		+7.215	

Saturn und Saturnsring 1932

0h Welt-Zeit		U	Δ	B	Δ	P	Δ
1932		°		°		°	
Juli	2	180.145	130	+19.973	49	+7.215	2
	4	180.015	133	20.022	50	7.217	2
	6	179.882	136	20.072	51	7.219	2
	8	179.746	138	20.123	52	7.221	1
	10	179.608	140	20.175	52	7.222	2
	12	179.468	143	+20.227	53	+7.224	1
	14	179.325	144	20.280	53	7.225	2
	16	179.181	145	20.333	53	7.227	1
	18	179.036	147	20.386	54	7.228	1
	20	178.889	148	20.440	54	7.229	1
	22	178.741	148	+20.494	54	+7.230	1
	24	178.593	148	20.548	54	7.231	1
	26	178.445	149	20.602	53	7.232	1
	28	178.296	148	20.655	53	7.233	1
	30	178.148	147	20.708	52	7.234	1
Aug.	1	178.001	146	+20.760	52	+7.235	1
	3	177.855	145	20.812	51	7.236	1
	5	177.710	143	20.863	51	7.237	1
	7	177.567	142	20.914	50	7.238	1
	9	177.425	139	20.964	49	7.239	0
	11	177.286	136	+21.013	48	+7.239	1
	13	177.150	134	21.061	46	7.240	0
	15	177.016	131	21.107	45	7.240	1
	17	176.885	127	21.152	44	7.241	0
	19	176.758	124	21.196	43	7.241	1
	21	176.634	120	+21.239	42	+7.242	0
	23	176.514	116	21.281	40	7.242	1
	25	176.398	112	21.321	38	7.243	0
	27	176.286	107	21.359	37	7.243	0
	29	176.179	103	21.396	35	7.243	0
	31	176.076	98	+21.431	33	+7.243	1
Sept.	2	175.978	92	21.464	31	7.244	0
	4	175.886	87	21.495	30	7.244	0
	6	175.799	82	21.525	28	7.244	0
	8	175.717	75	21.553	26	7.244	0
	10	175.642	70	+21.579	24	+7.244	0
	12	175.572	64	21.603	22	7.244	0
	14	175.508	58	21.625	20	7.244	0
	16	175.450	52	21.645	18	7.244	0
	18	175.398	45	21.663	16	7.244	0
	20	175.353	39	+21.679	14	+7.244	0
	22	175.314	32	21.693	11	7.244	0
	24	175.282	26	21.704	10	7.244	0
	26	175.256	19	21.714	7	7.244	0
	28	175.237	12	21.721	5	7.244	0
	30	175.225	6	21.726	3	7.244	0
Okt.	2	175.219		+21.729		+7.244	

0h Welt-Zeit		U	Δ	B	Δ	P	Δ
1932		°		°		°	
Okt.	2	175.219	1	+21.729	1	+7.244	0
	4	175.220	8	21.730	−1	7.244	0
	6	175.228	15	21.729	4	7.244	0
	8	175.243	22	21.725	6	7.244	0
	10	175.265	29	21.719	8	7.244	0
	12	175.294	35	+21.711	10	+7.244	0
	14	175.329	42	21.701	12	7.244	0
	16	175.371	49	21.689	15	7.244	0
	18	175.420	55	21.674	16	7.244	0
	20	175.475	62	21.658	19	7.244	0
	22	175.537	69	+21.639	21	+7.244	0
	24	175.606	75	21.618	23	7.244	1
	26	175.681	82	21.595	25	7.245	−1
	28	175.763	88	21.570	27	7.244	0
	30	175.851	94	21.543	29	7.244	0
Nov.	1	175.945	100	+21.514	32	+7.244	0
	3	176.045	107	21.482	34	7.244	0
	5	176.152	112	21.448	36	7.244	0
	7	176.264	118	21.412	37	7.244	0
	9	176.382	124	21.375	39	7.244	1
	11	176.506	130	+21.336	41	+7.243	0
	13	176.636	135	21.295	43	7.243	0
	15	176.771	140	21.252	45	7.243	0
	17	176.911	146	21.207	47	7.243	1
	19	177.057	151	21.160	49	7.242	0
	21	177.208	156	+21.111	51	+7.242	1
	23	177.364	161	21.060	52	7.241	0
	25	177.525	165	21.008	54	7.241	1
	27	177.690	170	20.954	56	7.240	1
	29	177.860	174	20.898	57	7.239	1
Dez.	1	178.034	179	+20.841	59	+7.238	1
	3	178.213	183	20.782	61	7.237	1
	5	178.396	187	20.721	62	7.236	1
	7	178.583	190	20.659	64	7.235	2
	9	178.773	194	20.595	65	7.233	1
	11	178.967	198	+20.530	67	+7.232	2
	13	179.165	201	20.463	68	7.230	2
	15	179.366	204	20.395	70	7.228	2
	17	179.570	207	20.325	71	7.226	2
	19	179.777	211	20.254	72	7.224	2
	21	179.988	213	+20.182	73	+7.222	2
	23	180.201	215	20.109	74	7.220	3
	25	180.416	218	20.035	76	7.217	2
	27	180.634	220	19.959	77	7.215	3
	29	180.854	223	19.882	78	7.212	3
	31	181.077	224	19.804	79	7.209	3
	33	181.301		+19.725		+7.206	

MIMAS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932	°	°		"
April 9	210.866	354.61	1.39938	+8.41
11	254.835	36.58	1.40077	8.42
13	298.804	78.55	1.40217	8.44
15	342.773	120.52	1.40358	8.45
17	26.742	162.49	1.40500	8.47
19	70.711	204.45	1.40643	+8.48
21	114.680	246.42	1.40787	8.50
23	158.649	288.39	1.40932	8.51
25	202.618	330.36	1.41078	8.53
27	246.587	12.33	1.41224	8.55
29	290.556	54.30	1.41371	+8.58
Mai 1	334.525	96.27	1.41517	8.60
3	18.494	138.24	1.41664	8.63
5	62.463	180.20	1.41811	8.65
7	106.432	222.17	1.41957	8.68
9	150.401	264.14	1.42103	+8.70
11	194.370	306.11	1.42248	8.73
13	238.339	348.08	1.42392	8.76
15	282.308	30.05	1.42535	8.79
17	326.277	72.02	1.42677	8.83
19	10.246	113.99	1.42817	+8.86
21	54.215	155.95	1.42956	8.89
23	98.184	197.92	1.43093	8.93
25	142.153	239.89	1.43229	8.96
27	186.122	281.86	1.43362	8.99
29	230.091	323.83	1.43493	+9.03
31	274.060	5.80	1.43621	9.06
Juni 2	318.029	47.77	1.43747	9.10
4	1.997	89.74	1.43870	9.13
6	45.966	131.71	1.43990	9.17
8	89.935	173.68	1.44107	+9.21
10	133.904	215.65	1.44220	9.25
12	177.873	257.62	1.44330	9.29
14	221.842	299.59	1.44436	9.32
16	265.811	341.56	1.44539	9.36
18	309.780	23.53	1.44637	+9.40
20	353.748	65.50	1.44731	9.44
22	37.717	107.46	1.44821	9.48
24	81.686	149.43	1.44906	9.52
26	125.655	191.40	1.44986	+9.56

MIMAS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932	°	°		"
Juni 26	125.655	191.40	1.44986	+ 9.56
28	169.624	233.37	1.45062	9.60
30	213.593	275.34	1.45133	9.64
Juli 2	257.562	317.31	1.45199	9.68
4	301.531	359.28	1.45260	9.72
6	345.499	41.25	1.45316	+ 9.76
8	29.468	83.21	1.45366	9.79
10	73.437	125.18	1.45410	9.82
12	117.406	167.15	1.45449	9.85
14	161.375	209.12	1.45483	9.88
16	205.344	251.09	1.45511	+ 9.91
18	249.313	293.06	1.45533	9.94
20	293.281	335.03	1.45550	9.97
22	337.250	17.00	1.45561	10.00
24	21.219	58.96	1.45566	10.03
26	65.188	100.93	1.45565	+10.05
28	109.156	142.90	1.45559	10.07
30	153.125	184.87	1.45547	10.09
Aug. 1	197.094	226.84	1.45529	10.11
3	241.062	268.81	1.45505	10.13
5	285.031	310.78	1.45475	+10.15
7	329.000	352.75	1.45440	10.17
9	12.968	34.71	1.45399	10.18
11	56.937	76.68	1.45353	10.19
13	100.906	118.65	1.45301	10.20
15	144.875	160.62	1.45244	+10.21
17	188.844	202.59	1.45182	10.22
19	232.812	244.56	1.45115	10.22
21	276.781	286.53	1.45042	10.23
23	320.750	328.50	1.44965	10.23
25	4.718	10.46	1.44883	+10.23
27	48.687	52.43	1.44796	10.22
29	92.656	94.40	1.44705	10.22
31	136.624	136.37	1.44610	10.21
Sept. 2	180.593	178.34	1.44510	10.20
4	224.561	220.31	1.44406	+10.19
6	268.530	262.28	1.44299	10.18
8	312.499	304.25	1.44188	10.17
10	356.467	346.21	1.44073	10.15
12	40.436	28.18	1.43955	+10.13

MIMAS

0^h Welt Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932 Sept. 12	40°.436	28°.18	1.43955	+10″.13
14	84.405	70.15	1.43834	10.11
16	128.373	112.12	1.43710	10.09
18	172.342	154.09	1.43583	10.07
20	216.310	196.06	1.43454	10.05
22	260.279	238.02	1.43322	+10.03
24	304.248	279.99	1.43188	10.00
26	348.216	321.96	1.43051	9.97
28	32.185	3.93	1.42913	9.94
30	76.154	45.89	1.42774	9.91
Okt. 2	120.122	87.86	1.42633	+ 9.88
4	164.090	129.83	1.42490	9.85
6	208.059	171.80	1.42347	9.82
8	252.027	213.77	1.42202	9.79
10	295.996	255.74	1.42057	9.76
12	339.964	297.70	1.41912	+ 9.72
14	23.933	339.67	1.41766	9.68
16	67.901	21.64	1.41620	9.64
18	111.870	63.61	1.41474	9.60
20	155.838	105.58	1.41328	9.56
22	199.807	147.55	1.41182	+ 9.52
24	243.775	189.52	1.41037	9.48
26	287.744	231.49	1.40892	9.44
28	331.712	273.45	1.40748	9.40
30	15.681	315.42	1.40605	9.36
Nov. 1	59.649	357.39	1.40464	+ 9.32
3	103.618	39.36	1.40323	9.27
5	147.586	81.33	1.40184	9.23
7	191.555	123.30	1.40047	9.18
9	235.523	165.27	1.39911	9.14
11	279.492	207.24	1.39777	+ 9.09
13	323.460	249.20	1.39644	9.05
15	7.429	291.17	1.39514	9.00
17	51.397	333.14	1.39386	8.96
19	95.366	15.11	1.39260	8.91
21	139.334	57.08	1.39137	+ 8.87
23	183.303	99.05	1.39016	8.82
25	227.271	141.01	1.38898	8.78
27	271.240	182.98	1.38783	8.73
29	315.208	224.95	1.38670	+ 8.69

ENCELADUS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932 April 9	31°.605	299°.7	1.50759	+10″.79
11	197.067	104.5	1.50898	10.81
13	2.529	269.3	1.51038	10.83
15	167.991	74.1	1.51179	10.85
17	333.453	238.8	1.51321	10.87
19	138.915	43.6	1.51464	+10.89
21	304.377	208.4	1.51608	10.91
23	109.839	13.2	1.51753	10.93
25	275.301	178.0	1.51899	10.95
27	80.763	342.8	1.52045	10.98
29	246.225	147.6	1.52192	+11.01
Mai 1	51.687	312.4	1.52338	11.04
3	217.148	117.1	1.52485	11.07
5	22.610	281.9	1.52632	11.10
7	188.072	86.7	1.52778	11.13
9	353.534	251.5	1.52924	+11.16
11	158.996	56.3	1.53069	11.20
13	324.458	221.1	1.53213	11.24
15	129.920	25.9	1.53356	11.28
17	295.382	190.7	1.53498	11.32
19	100.844	355.4	1.53638	+11.36
21	266.306	160.2	1.53777	11.40
23	71.768	325.0	1.53914	11.44
25	237.230	129.8	1.54050	11.48
27	42.692	294.6	1.54183	11.53
29	208.154	99.4	1.54314	+11.57
31	13.616	264.2	1.54442	11.62
Juni 2	179.078	69.0	1.54568	11.66
4	344.540	233.7	1.54691	11.71
6	150.002	38.5	1.54811	11.76
8	315.464	203.3	1.54928	+11.81
10	120.926	8.1	1.55041	11.86
12	286.388	172.9	1.55151	11.91
14	91.850	337.7	1.55257	11.96
16	257.312	142.5	1.55360	12.01
18	62.774	307.3	1.55458	+12.06
20	228.235	112.0	1.55552	12.11
22	33.697	276.8	1.55642	12.16
24	199.159	81.6	1.55727	12.21
26	4.621	246.4	1.55807	+12.26

ENCELADUS

0h Welt-Zeit		L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932					
Juni	26	4°.621	246°.4	1.55807	+12″.26
	28	170.083	51.2	1.55883	12.31
	30	335.545	216.0	1.55954	12.36
Juli	2	141.007	20.8	1.56020	12.41
	4	306.469	185.6	1.56081	12.46
	6	111.931	350.3	1.56137	+12.51
	8	277.393	155.1	1.56187	12.55
	10	82.855	319.9	1.56231	12.59
	12	248.317	124.7	1.56270	12.63
	14	53.779	289.5	1.56304	12.67
	16	219.241	94.3	1.56332	+12.71
	18	24.703	259.0	1.56354	12.75
	20	190.165	63.8	1.56371	12.79
	22	355.627	228.6	1.56382	12.83
	24	161.089	33.4	1.56387	12.86
	26	326.551	198.1	1.56386	+12.89
	28	132.013	2.9	1.56380	12.92
	30	297.475	167.7	1.56368	12.95
Aug.	1	102.937	332.5	1.56350	12.97
	3	268.399	137.3	1.56326	12.99
	5	73.861	302.1	1.56296	+13.01
	7	239.323	106.8	1.56261	13.03
	9	44.785	271.6	1.56220	13.05
	11	210.247	76.4	1.56174	13.07
	13	15.709	241.2	1.56122	13.08
	15	181.171	46.0	1.56065	+13.09
	17	346.633	210.8	1.56003	13.10
	19	152.095	15.6	1.55936	13.11
	21	317.557	180.4	1.55863	13.11
	23	123.019	345.1	1.55786	13.11
	25	288.482	149.9	1.55704	+13.11
	27	93.944	314.7	1.55617	13.11
	29	259.406	119.5	1.55526	13.10
	31	64.868	284.3	1.55431	13.09
Sept.	2	230.330	89.1	1.55331	13.08
	4	35.792	253.9	1.55227	+13.07
	6	201.254	58.7	1.55120	13.05
	8	6.716	223.4	1.55009	13.03
	10	172.179	28.2	1.54894	13.01
	12	337.641	193.0	1.54776	+12.99

ENCELADUS

0h Welt-Zeit		L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932					
Sept.	12	337°.641	193°.0	1.54776	+12″.99
	14	143.103	357.8	1.54655	12.97
	16	308.565	162.6	1.54531	12.95
	18	114.027	327.4	1.54404	12.92
	20	279.489	132.2	1.54275	12.89
	22	84.951	297.0	1.54143	+12.86
	24	250.413	101.7	1.54009	12.83
	26	55.876	266.5	1.53872	12.80
	28	221.338	71.3	1.53734	12.76
	30	26.800	236.1	1.53595	12.72
Okt.	2	192.262	40.9	1.53454	+12.68
	4	357.724	205.7	1.53311	12.64
	6	163.186	10.5	1.53168	12.60
	8	328.649	175.3	1.53023	12.56
	10	134.111	340.0	1.52878	12.51
	12	299.573	144.8	1.52733	+12.46
	14	105.035	309.6	1.52587	12.41
	16	270.498	114.4	1.52441	12.36
	18	75.960	279.2	1.52295	12.31
	20	241.422	84.0	1.52149	12.26
	22	46.885	248.8	1.52003	+12.21
	24	212.347	53.6	1.51858	12.16
	26	17.809	218.3	1.51713	12.11
	28	183.272	23.1	1.51569	12.06
	30	348.734	187.9	1.51426	12.00
Nov.	1	154.197	352.7	1.51285	+11.95
	3	319.659	157.5	1.51144	11.89
	5	125.121	322.3	1.51005	11.84
	7	290.584	127.1	1.50868	11.78
	9	96.046	291.9	1.50732	11.72
	11	261.508	96.6	1.50598	+11.67
	13	66.971	261.4	1.50465	11.61
	15	232.433	66.2	1.50335	11.55
	17	37.896	231.0	1.50207	11.50
	19	203.358	35.8	1.50081	11.44
	21	8.821	200.6	1.49958	+11.38
	23	174.283	5.4	1.49837	11.33
	25	339.746	170.2	1.49719	11.27
	27	145.208	334.9	1.49604	11.21
	29	310.671	139.7	1.49491	+11.15

TETHYS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932				
April 9	49°.282		1.60028	+13″.35
11	70.678		1.60167	13.37
13	92.075		1.60307	13.39
15	113.471		1.60448	13.41
17	134.868		1.60590	13.43
19	156.264		1.60733	+13.46
21	177.661		1.60877	13.49
23	199.057		1.61022	13.52
25	220.454		1.61168	13.55
27	241.851		1.61314	13.59
29	263.247		1.61461	+13.63
Mai 1	284.644		1.61607	13.67
3	306.040		1.61754	13.71
5	327.437		1.61901	13.75
7	348.834		1.62047	13.79
9	10.230		1.62193	+13.83
11	31.627		1.62338	13.87
13	53.023		1.62482	13.92
15	74.420		1.62625	13.97
17	95.816		1.62767	14.02
19	117.213		1.62907	+14.07
21	138.609		1.63046	14.12
23	160.006		1.63183	14.17
25	181.402		1.63319	14.22
27	202.799		1.63452	14.28
29	224.195		1.63583	+14.33
31	245.592		1.63711	14.39
Juni 2	266.988		1.63837	14.45
4	288.385		1.63960	14.51
6	309.781		1.64080	14.57
8	331.178		1.64197	+14.63
10	352.574		1.64310	14.69
12	13.971		1.64420	14.75
14	35.368		1.64526	14.81
16	56.764		1.64629	14.88
18	78.161		1.64727	+14.94
20	99.557		1.64821	15.00
22	120.954		1.64911	15.06
24	142.351		1.64996	15.12
26	163.747		1.65076	+15.18

TETHYS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932				
Juni 26	163°.747		1.65076	+15″.18
28	185.144		1.65152	15.24
30	206.540		1.65223	15.30
Juli 2	227.937		1.65289	15.36
4	249.333		1.65350	15.42
6	270.730		1.65406	+15.48
8	292.126		1.65456	15.54
10	313.523		1.65500	15.59
12	334.919		1.65539	15.64
14	356.316		1.65573	15.69
16	17.713		1.65601	+15.74
18	39.109		1.65623	15.79
20	60.506		1.65640	15.83
22	81.902		1.65651	15.87
24	103.299		1.65656	15.91
26	124.696		1.65655	+15.95
28	146.092		1.65649	15.99
30	167.489		1.65637	16.03
Aug. 1	188.885		1.65619	16.06
3	210.282		1.65595	16.09
5	231.678		1.65565	+16.12
7	253.075		1.65530	16.14
9	274.471		1.65489	16.16
11	295.868		1.65443	16.18
13	317.264		1.65391	16.20
15	338.661		1.65334	+16.21
17	0.058		1.65272	16.22
19	21.454		1.65205	16.23
21	42.851		1.65132	16.24
23	64.247		1.65055	16.24
25	85.644		1.64973	+16.24
27	107.041		1.64886	16.23
29	128.437		1.64795	16.22
31	149.834		1.64700	16.21
Sept. 2	171.230		1.64600	16.20
4	192.627		1.64496	+16.18
6	214.023		1.64389	16.16
8	235.420		1.64278	16.14
10	256.816		1.64163	16.12
12	278.213		1.64045	+16.09

TETHYS

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932				
Sept. 12	278°.213		1.64045	+16″.09
14	299.609		1.63924	16.06
16	321.006		1.63800	16.03
18	342.403		1.63673	15.99
20	3.799		1.63544	15.95
22	25.196		1.63412	+15.91
24	46.592		1.63278	15.87
26	67.989		1.63141	15.83
28	89.386		1.63003	15.79
30	110.782		1.62864	15.74
Okt. 2	132.179		1.62723	+15.69
4	153.576		1.62580	15.64
6	174.972		1.62437	15.59
8	196.369		1.62292	15.53
10	217.765		1.62147	15.47
12	239.162		1.62002	+15.41
14	260.559		1.61856	15.35
16	281.955		1.61710	15.29
18	303.352		1.61564	15.24
20	324.748		1.61418	15.18
22	346.145		1.61272	+15.12
24	7.541		1.61127	15.06
26	28.938		1.60982	15.00
28	50.334		1.60838	14.93
30	71.731		1.60695	14.86
Nov. 1	93.127		1.60554	+14.79
3	114.524		1.60413	14.72
5	135.921		1.60274	14.65
7	157.317		1.60137	14.58
9	178.714		1.60001	14.51
11	200.110		1.59867	+14.44
13	221.507		1.59734	14.37
15	242.904		1.59604	14.30
17	264.300		1.59476	14.23
19	285.697		1.59350	14.16
21	307.093		1.59227	+14.09
23	328.490		1.59106	14.02
25	349.886		1.58988	13.95
27	11.283		1.58873	13.88
29	32.679		1.58760	+13.81

DIONE

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932				
April 9	241°.803	309°.7	1.70776	+17″.10
11	144.873	212.6	1.70915	17.12
13	47.943	115.5	1.71055	17.15
15	311.013	18.4	1.71196	17.18
17	214.082	281.3	1.71338	17.21
19	117.152	184.2	1.71481	+17.24
21	20.222	87.1	1.71625	17.28
23	283.292	350.0	1.71770	17.32
25	186.362	252.9	1.71916	17.36
27	89.432	155.8	1.72062	17.40
29	352.502	58.7	1.72209	+17.45
Mai 1	255.572	321.6	1.72355	17.50
3	158.641	224.5	1.72502	17.55
5	61.711	127.4	1.72649	17.60
7	324.781	30.3	1.72795	17.65
9	227.851	293.2	1.72941	+17.70
11	130.921	196.1	1.73086	17.76
13	33.991	99.0	1.73230	17.82
15	297.061	1.9	1.73373	17.88
17	200.131	264.8	1.73515	17.94
19	103.200	167.7	1.73655	+18.00
21	6.270	70.6	1.73794	18.07
23	269.340	333.5	1.73931	18.14
25	172.410	236.4	1.74067	18.21
27	75.480	139.3	1.74200	18.28
29	338.550	42.2	1.74331	+18.35
31	241.620	305.1	1.74459	18.42
Juni 2	144.690	208.0	1.74585	18.49
4	47.759	111.0	1.74708	18.57
6	310.829	13.9	1.74828	18.65
8	213.899	276.8	1.74945	+18.73
10	116.969	179.7	1.75058	18.81
12	20.039	82.6	1.75168	18.89
14	283.109	345.5	1.75274	18.97
16	186.179	248.4	1.75377	19.05
18	89.249	151.3	1.75475	+19.13
20	352.318	54.2	1.75569	19.21
22	255.388	317.1	1.75659	19.29
24	158.458	220.0	1.75744	19.37
26	61.528	122.9	1.75824	+19.45

DIONE

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932				
Juni 26	61°.528	122°.9	1.75824	+19″.45
28	324.598	25.8	1.75900	19.52
30	227.668	288.7	1.75971	19.60
Juli 2	130.738	191.6	1.76037	19.68
4	33.808	94.5	1.76098	19.75
6	296.877	357.4	1.76154	+19.82
8	199.947	260.3	1.76204	19.89
10	103.017	163.2	1.76248	19.96
12	6.087	66.1	1.76287	20.03
14	269.157	329.0	1.76321	20.09
16	172.227	231.9	1.76349	+20.15
18	75.297	134.8	1.76371	20.21
20	338.367	37.7	1.76388	20.27
22	241.436	300.6	1.76399	20.33
24	144.506	203.5	1.76404	20.38
26	47.576	106.4	1.76403	+20.43
28	310.646	9.3	1.76397	20.48
30	213.716	272.2	1.76385	20.53
Aug. 1	116.786	175.1	1.76367	20.57
3	19.856	78.0	1.76343	20.61
5	282.925	340.9	1.76313	+20.65
7	185.995	243.8	1.76278	20.68
9	89.065	146.7	1.76237	20.71
11	352.135	49.6	1.76191	20.73
13	255.204	312.5	1.76139	20.75
15	158.274	215.4	1.76082	+20.76
17	61.344	118.3	1.76020	20.77
19	324.414	21.2	1.75953	20.77
21	227.484	284.1	1.75880	20.78
23	130.553	187.0	1.75803	20.78
25	33.623	89.9	1.75721	+20.78
27	296.693	352.8	1.75634	20.77
29	199.763	255.7	1.75543	20.77
31	102.833	158.6	1.75448	20.76
Sept. 2	5.903	61.5	1.75348	20.75
4	268.973	324.4	1.75244	+20.73
6	172.043	227.3	1.75137	20.71
8	75.112	130.2	1.75026	20.68
10	338.182	33.1	1.74911	20.65
12	241.252	296.0	1.74793	+20.61

DIONE

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932				
Sept. 12	241°.252	296°.0	1.74793	+20″.61
14	144.322	198.9	1.74672	20.57
16	47.392	101.8	1.74548	20.53
18	310.462	4.7	1.74421	20.48
20	213.532	267.6	1.74292	20.43
22	116.602	170.5	1.74160	+20.38
24	19.671	73.4	1.74026	20.33
26	282.741	336.3	1.73889	20.28
28	185.811	239.2	1.73751	20.22
30	88.881	142.1	1.73612	20.16
Okt. 2	351.951	45.0	1.73471	+20.10
4	255.021	307.9	1.73328	20.04
6	158.091	210.8	1.73185	19.97
8	61.161	113.7	1.73040	19.90
10	324.230	16.6	1.72895	19.83
12	227.300	279.5	1.72750	+19.76
14	130.370	182.4	1.72604	19.68
16	33.440	85.3	1.72458	19.60
18	296.510	348.2	1.72312	19.52
20	199.580	251.1	1.72166	19.44
22	102.650	154.0	1.72020	+19.36
24	5.719	56.9	1.71875	19.28
26	268.789	319.8	1.71730	19.20
28	171.859	222.7	1.71586	19.12
30	74.928	125.6	1.71443	19.03
Nov. 1	337.998	28.5	1.71302	+18.94
3	241.068	291.4	1.71161	18.85
5	144.138	194.3	1.71022	18.76
7	47.208	97.2	1.70885	18.67
9	310.278	0.1	1.70749	18.58
11	213.347	263.0	1.70615	+18.49
13	116.417	165.9	1.70482	18.40
15	19.487	68.8	1.70352	18.31
17	282.557	331.7	1.70224	18.22
19	185.627	234.6	1.70098	18.13
21	88.697	137.5	1.69975	+18.04
23	351.767	40.4	1.69854	17.95
25	254.836	303.3	1.69736	17.86
27	157.906	206.2	1.69621	17.77
29	60.976	109.1	1.69508	+17.68

RHEA

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932 April 9	1°.987	178°.6	1.85280	+23″.88
11	161.367	338.0	1.85419	23.91
13	320.747	137.4	1.85559	23.95
15	120.127	296.8	1.85700	23.99
17	279.507	96.2	1.85842	24.03
19	78.886	255.6	1.85985	+24.08
21	238.266	55.0	1.86129	24.13
23	37.646	214.4	1.86274	24.18
25	197.026	13.8	1.86420	24.24
27	356.406	173.2	1.86566	24.30
29	155.786	332.6	1.86713	+24.36
Mai 1	315.166	132.0	1.86859	24.43
3	114.546	291.3	1.87006	24.50
5	273 925	90.7	1.87153	24.57
7	73.305	250.1	1.87299	24.64
9	232.685	49.5	1.87445	+24.72
11	32.065	208.9	1.87590	24.80
13	191.445	8.3	1.87734	24.88
15	350.825	167.7	1.87877	24.97
17	150.205	327.1	1.88019	25.06
19	309.585	126.4	1.88159	+25.15
21	108.965	285.8	1.88298	25.24
23	268.345	85.2	1.88435	25.33
25	67.725	244.6	1.88571	25.43
27	227.105	44.0	1.88704	25.53
29	26.485	203.4	1.88835	+25.63
31	185.865	2.8	1.88963	25.73
Juni 2	345.245	162.2	1.89089	25.83
4	144.625	321.5	1.89212	25.94
6	304.005	120.9	1.89332	26.05
8	103.385	280.3	1.89449	+26.16
10	262.765	79.7	1.89562	26.27
12	62.145	239.1	1.89672	26.38
14	221.525	38.5	1.89778	26.49
16	20.905	197.9	1.89881	26.60
18	180.285	357.3	1.89979	+26.71
20	339.665	156.6	1.90073	26.82
22	139.044	316.0	1.90163	26.93
24	298.424	115.4	1.90248	27.04
26	97.804	274.8	1.90328	+27.15

RHEA

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932 Juni 26	97°.804	274°.8	1.90328	+27″.15
28	257.184	74.2	1.90404	27.26
30	56.564	233.6	1.90475	27.37
Juli 2	215.944	33.0	1.90541	27.48
4	15.324	192.4	1.90602	27.58
6	174.704	351.8	1.90658	+27.68
8	334.084	151.2	1.90708	27.78
10	133.464	310.6	1.90752	27.88
12	292.844	110.0	1.90791	27.97
14	92.224	269.4	1.90825	28.06
16	251.604	68.8	1.90853	+28.15
18	50.984	228.2	1.90875	28.24
20	210.364	27.6	1.90892	28.32
22	9.744	186.9	1.90903	28.40
24	169.123	346.3	1.90908	28.47
26	328.503	145.7	1.90907	+28.54
28	127.883	305.1	1.90901	28.61
30	287.263	104.5	1.90889	28.67
Aug. 1	86.643	263.9	1.90871	28.73
3	246.023	63.3	1.90847	28.78
5	45.403	222.7	1.90817	+28.83
7	204.783	22.0	1.90782	28.87
9	4.163	181.4	1.90741	28.91
11	163.543	340.8	1.90695	28.94
13	322.923	140.2	1.90643	28.97
15	122.303	299.6	1.90586	+28.99
17	281.683	99.0	1.90524	29.01
19	81.063	258.4	1.90457	29.02
21	240.443	57.8	1.90384	29.03
23	39.823	217.1	1.90307	29.03
25	199.202	16.5	1.90225	+29.03
27	358.582	175.9	1.90138	29.02
29	157.962	335.3	1.90047	29.01
31	317.342	134.7	1.89952	28.99
Sept. 2	116.722	294.1	1.89852	28.97
4	276.102	93.5	1.89748	+28.94
6	75.482	252.9	1.89641	28.91
8	234.862	52.2	1.89530	28.87
10	34.242	211.6	1.89415	28.83
12	193.622	11.0	1.89297	+28.78

RHEA

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta}\sin B$
1932				
Sept. 12	193°.622	11°.0	1.89297	+28".78
14	353.002	170.4	1.89176	28.73
16	152.382	329.8	1.89052	28.67
18	311.762	129.2	1.88925	28.61
20	111.142	288.6	1.88796	28.54
22	270.522	88.0	1.88664	+28.47
24	69.902	247.3	1.88530	28.40
26	229.281	46.7	1.88393	28.32
28	28.661	206.1	1.88255	28.24
30	188.041	5.5	1.88116	28.16
Okt. 2	347.421	164.9	1.87975	+28.07
4	146.801	324.3	1.87832	27.98
6	306.181	123.7	1.87689	27.88
8	105.561	283.1	1.87544	27.78
10	264.941	82.5	1.87399	27.68
12	64.321	241.9	1.87254	+27.58
14	223.701	41.3	1.87108	27.48
16	23.081	200.7	1.86962	27.37
18	182.461	0.1	1.86816	27.26
20	341.841	159.5	1.86670	27.15
22	141.221	318.9	1.86524	+27.04
24	300.601	118.3	1.86379	26.93
26	99.981	277.6	1.86234	26.82
28	259.360	77.0	1.86090	26.70
30	58.740	236.4	1.85947	26.58
Nov. 1	218.120	35.8	1.85806	+26.46
3	17.500	195.2	1.85665	26.33
5	176.880	354.6	1.85526	26.21
7	336.260	154.0	1.85389	26.09
9	135.640	313.4	1.85253	25.97
11	295.020	112.7	1.85119	+25.84
13	94.400	272.1	1.84986	25.71
15	253.780	71.5	1.84856	25.58
17	53.160	230.9	1.84728	25.45
19	212.540	30.3	1.84602	25.32
21	11.920	189.7	1.84479	+25.19
23	171.300	349.1	1.84358	25.06
25	330.680	148.5	1.84240	24.93
27	130.060	307.8	1.84125	24.80
29	289.439	107.2	1.84012	+24.67

TITAN

0h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta}\sin B$
1932				
April 9	210°.63	37°.2	2.21795	+55".36
11	255.78	82.3	2.21934	55.44
13	300.94	127.5	2.22074	55.53
15	346.09	172.6	2.22215	55.62
17	31.25	217.8	2.22357	55.72
19	76.40	262.9	2.22500	+55.83
21	121.56	308.1	2.22644	55.95
23	166.71	353.2	2.22789	56.07
25	211.87	38.4	2.22935	56.20
27	257.02	83.5	2.23081	56.34
29	302.18	128.7	2.23228	+56.49
Mai 1	347.33	173.8	2.23374	56.64
3	32.48	219.0	2.23521	56.80
5	77.64	264.1	2.23668	56.97
7	122.79	309.3	2.23814	57.14
9	167.94	354.4	2.23960	+57.32
11	213.10	39.6	2.24105	57.50
13	258.25	84.7	2.24249	57.70
15	303.41	129.9	2.24392	57.90
17	348.56	175.0	2.24534	58.11
19	33.71	220.2	2.24674	+58.32
21	78.87	265.3	2.24813	58.53
23	124.02	310.5	2.24950	58.75
25	169.17	355.6	2.25086	58.97
27	214.33	40.8	2.25219	59.19
29	259.48	85.9	2.25350	+59.42
31	304.64	131.1	2.25478	59.66
Juni 2	349.79	176.2	2.25604	59.90
4	34.94	221.4	2.25727	60.14
6	80.10	266.5	2.25847	60.39
8	125.25	311.7	2.25964	+60.64
10	170.40	356.8	2.26077	60.89
12	215.56	42.0	2.26187	61.15
14	260.71	87.1	2.26293	61.41
16	305.87	132.3	2.26396	61.67
18	351.02	177.4	2.26494	+61.93
20	36.17	222.6	2.26588	62.19
22	81.33	267.7	2.26678	62.44
24	126.48	312.9	2.26763	62.69
26	171.63	358.0	2.26843	+62.94

TITAN

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932				
Juni 26	171°.63	358°.0	2.26843	+62″.94
28	216.79	43.2	2.26919	63.19
30	261.94	88.3	2.26990	63.44
Juli 2	307.10	133.5	2.27056	63.68
4	352.25	178.6	2.27117	63.92
6	37.40	223.8	2.27173	+64.16
8	82.56	268.9	2.27223	64.39
10	127.71	314.1	2.27267	64.62
12	172.86	359.2	2.27306	64.84
14	218.02	44.4	2.27340	65.05
16	263.17	89.5	2.27368	+65.26
18	308.33	134.7	2.27390	65.46
20	353.48	179.8	2.27407	65.65
22	38.63	225.0	2.27418	65.83
24	83.79	270.1	2.27423	66.00
26	128.94	315.3	2.27422	+66.16
28	174.09	0.4	2.27416	66.32
30	219.25	45.6	2.27404	66.46
Aug. 1	264.40	90.7	2.27386	66.60
3	309.56	135.9	2.27362	66.72
5	354.71	181.0	2.27332	+66.83
7	39.86	226.2	2.27297	66.93
9	85.02	271.4	2.27256	67.02
11	130.17	316.6	2.27210	67.10
13	175.32	1.7	2.27158	67.16
15	220.48	46.9	2.27101	+67.21
17	265.63	92.0	2.27039	67.25
19	310.79	137.2	2.26972	67.28
21	355.94	182.3	2.26899	67.30
23	41.09	227.5	2.26822	67.31
25	86.25	272.6	2.26740	+67.30
27	131.40	317.8	2.26653	67.28
29	176.55	2.9	2.26562	67.25
31	221.71	48.1	2.26467	67.21
Sept. 2	266.86	93.2	2.26367	67.16
4	312.02	138.4	2.26263	+67.09
6	357.17	183.5	2.26156	67.01
8	42.32	228.7	2.26045	66.92
10	87.48	273.8	2.25930	66.82
12	132.63	319.0	2.25812	+66.71

TITAN

0^h Welt-Zeit	L	M	$\log \frac{a(\Delta)}{\Delta}$	$\frac{a(\Delta)}{\Delta} \sin B$
1932				
Sept. 12	132°.63	319°.0	2.25812	+66″.71
14	177.78	4.1	2.25691	66.59
16	222.94	49.3	2.25567	66.45
18	268.09	94.4	2.25440	66.31
20	313.25	139.6	2.25311	66.16
22	358.40	184.7	2.25179	+66.00
24	43.55	229.9	2.25045	65.83
26	88.71	275.0	2.24908	65.65
28	133.86	320.2	2.24770	65.46
30	179.01	5.3	2.24631	65.27
Okt. 2	224.17	50.5	2.24490	+65.07
4	269.32	95.6	2.24347	64.86
6	314.48	140.8	2.24204	64.64
8	359.63	185.9	2.24059	64.41
10	44.78	231.1	2.23914	64.18
12	89.94	276.2	2.23769	+63.94
14	135.09	321.4	2.23623	63.70
16	180.24	6.5	2.23477	63.45
18	225.40	51.7	2.23331	63.20
20	270.55	96.8	2.23185	62.94
22	315.71	142.0	2.23039	+62.68
24	0.86	187.1	2.22894	62.41
26	46.01	232.3	2.22749	62.14
28	91.17	277.4	2.22605	61.87
30	136.32	322.6	2.22462	61.59
Nov. 1	181.47	7.7	2.22321	+61.31
3	226.63	52.9	2.22180	61.03
5	271.78	98.0	2.22041	60.74
7	316.94	143.2	2.21904	60.45
9	2.09	188.3	2.21768	60.16
11	47.24	233.5	2.21634	+59.87
13	92.40	278.6	2.21501	59.58
15	137.55	323.8	2.21371	59.29
17	182.70	8.9	2.21243	59.00
19	227.86	54.1	2.21117	58.70
21	273.01	99.2	2.20994	+58.41
23	318.17	144.4	2.20873	58.11
25	3.32	189.5	2.20755	57.82
27	48.47	234.7	2.20640	57.52
29	93.63	279.8	2.20527	+57.23

M	Mimas		Enceladus		Dione		Rhea		M
	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	
° 0	° 0.000	9.99167	° 0.000	9.99800	° 0.000	9.99913	° 0.000	9.99961	360°
2	0.078	9.99167	0.018	9.99800	0.008	9.99913	0.004	9.99961	358
4	0.156	9.99169	0.037	9.99800	0.016	9.99913	0.007	9.99961	356
6	0.233	9.99172	0.055	9.99801	0.024	9.99913	0.011	9.99961	354
8	0.310	9.99175	0.074	9.99802	0.032	9.99914	0.014	9.99961	352
10	0.387	9.99180	0.092	9.99803	0.040	9.99914	0.018	9.99961	350
12	0.463	9.99186	0.110	9.99804	0.048	9.99915	0.021	9.99962	348
14	0.539	9.99193	0.128	9.99806	0.056	9.99916	0.025	9.99962	346
16	0.614	9.99201	0.146	9.99808	0.063	9.99916	0.028	9.99962	344
18	0.688	9.99210	0.164	9.99810	0.071	9.99917	0.032	9.99963	342
20	0.762	9.99220	0.181	9.99812	0.079	9.99918	0.035	9.99963	340
22	0.834	9.99230	0.199	9.99814	0.086	9.99919	0.039	9.99964	338
24	0.905	9.99242	0.216	9.99817	0.093	9.99921	0.042	9.99964	336
26	0.975	9.99255	0.232	9.99820	0.101	9.99922	0.045	9.99965	334
28	1.044	9.99269	0.249	9.99823	0.108	9.99923	0.048	9.99966	332
30	1.111	9.99284	0.265	9.99827	0.115	9.99925	0.052	9.99966	330
32	1.177	9.99299	0.281	9.99830	0.122	9.99926	0.055	9.99967	328
34	1.242	9.99316	0.296	9.99834	0.128	9.99928	0.058	9.99968	326
36	1.305	9.99333	0.311	9.99838	0.135	9.99930	0.061	9.99968	324
38	1.366	9.99351	0.326	9.99842	0.141	9.99931	0.064	9.99969	322
40	1.425	9.99370	0.340	9.99847	0.148	9.99933	0.066	9.99970	320
42	1.483	9.99390	0.354	9.99852	0.154	9.99935	0.069	9.99971	318
44	1.538	9.99410	0.368	9.99856	0.159	9.99937	0.072	9.99972	316
46	1.592	9.99431	0.381	9.99861	0.165	9.99940	0.074	9.99973	314
48	1.644	9.99453	0.393	9.99866	0.171	9.99942	0.077	9.99974	312
50	1.693	9.99476	0.405	9.99872	0.176	9.99944	0.079	9.99975	310
52	1.741	9.99499	0.417	9.99877	0.181	9.99947	0.081	9.99976	308
54	1.786	9.99523	0.428	9.99883	0.186	9.99949	0.083	9.99977	306
56	1.829	9.99547	0.438	9.99889	0.190	9.99951	0.085	9.99978	304
58	1.870	9.99572	0.448	9.99895	0.195	9.99954	0.087	9.99979	302
60	1.908	9.99597	0.458	9.99901	0.199	9.99957	0.089	9.99980	300
62	1.944	9.99623	0.467	9.99907	0.203	9.99959	0.091	9.99982	298
64	1.977	9.99650	0.475	9.99913	0.206	9.99962	0.093	9.99983	296
66	2.008	9.99676	0.483	9.99919	0.210	9.99965	0.094	9.99984	294
68	2.036	9.99703	0.490	9.99926	0.213	9.99967	0.096	9.99985	292
70	2.062	9.99731	0.496	9.99932	0.216	9.99970	0.097	9.99987	290
72	2.086	9.99759	0.502	9.99939	0.218	9.99973	0.098	9.99988	288
74	2.106	9.99787	0.508	9.99946	0.220	9.99976	0.099	9.99989	286
76	2.124	9.99815	0.512	9.99952	0.222	9.99979	0.100	9.99991	284
78	2.140	9.99843	0.516	9.99959	0.224	9.99982	0.101	9.99992	282
80	2.153	9.99872	0.520	9.99966	0.226	9.99985	0.102	9.99993	280
82	2.163	9.99900	0.523	9.99973	0.227	9.99988	0.102	9.99995	278
84	2.170	9.99929	0.525	9.99980	0.228	9.99991	0.103	9.99996	276
86	2.175	9.99958	0.526	9.99987	0.229	9.99994	0.103	9.99997	274
88	2.177	9.99987	0.527	9.99994	0.229	9.99997	0.103	9.99999	272
90	2.177	0.00016	0.527	0.00001	0.229	0.00000	0.103	0.00000	270

M	Mimas		Enceladus		Dione		Rhea		M
	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	$\pm(v-M)$	$\log \frac{r}{a}$	
90°	2.177°	0.00016	0.527°	0.00001	0.229°	0.00000	0.103°	0.00000	270°
92	2.174	0.00044	0.527	0.00008	0.229	0.00003	0.103	0.00001	268
94	2.168	0.00073	0.526	0.00015	0.229	0.00006	0.103	0.00003	266
96	2.159	0.00101	0.524	0.00022	0.228	0.00009	0.103	0.00004	264
98	2.148	0.00130	0.522	0.00029	0.227	0.00012	0.102	0.00005	262
100	2.135	0.00158	0.519	0.00035	0.226	0.00015	0.102	0.00007	260
102	2.119	0.00186	0.515	0.00042	0.224	0.00018	0.101	0.00008	258
104	2.100	0.00214	0.511	0.00049	0.222	0.00021	0.100	0.00009	256
106	2.079	0.00241	0.506	0.00056	0.220	0.00024	0.099	0.00011	254
108	2.055	0.00268	0.500	0.00062	0.218	0.00027	0.098	0.00012	252
110	2.029	0.00295	0.494	0.00069	0.215	0.00030	0.097	0.00013	250
112	2.000	0.00321	0.488	0.00075	0.212	0.00033	0.096	0.00015	248
114	1.969	0.00347	0.481	0.00082	0.209	0.00035	0.094	0.00016	246
116	1.936	0.00373	0.473	0.00088	0.206	0.00038	0.093	0.00017	244
118	1.901	0.00398	0.464	0.00094	0.202	0.00041	0.091	0.00018	242
120	1.863	0.00422	0.455	0.00100	0.198	0.00044	0.089	0.00019	240
122	1.823	0.00446	0.446	0.00106	0.194	0.00046	0.087	0.00021	238
124	1.781	0.00469	0.436	0.00112	0.190	0.00049	0.085	0.00022	236
126	1.737	0.00492	0.425	0.00118	0.185	0.00051	0.083	0.00023	234
128	1.691	0.00514	0.414	0.00123	0.180	0.00053	0.081	0.00024	232
130	1.643	0.00536	0.402	0.00129	0.175	0.00056	0.079	0.00025	230
132	1.593	0.00557	0.390	0.00134	0.170	0.00058	0.077	0.00026	228
134	1.541	0.00577	0.378	0.00139	0.164	0.00060	0.074	0.00027	226
136	1.487	0.00597	0.365	0.00144	0.159	0.00062	0.072	0.00028	224
138	1.431	0.00616	0.351	0.00148	0.153	0.00065	0.069	0.00029	222
140	1.374	0.00634	0.337	0.00153	0.147	0.00067	0.066	0.00030	220
142	1.316	0.00651	0.323	0.00157	0.141	0.00068	0.064	0.00031	218
144	1.256	0.00668	0.308	0.00162	0.134	0.00070	0.061	0.00032	216
146	1.194	0.00683	0.293	0.00166	0.128	0.00072	0.058	0.00032	214
148	1.131	0.00698	0.278	0.00169	0.121	0.00074	0.055	0.00033	212
150	1.067	0.00713	0.262	0.00173	0.114	0.00075	0.052	0.00034	210
152	1.001	0.00726	0.246	0.00176	0.107	0.00077	0.048	0.00034	208
154	0.934	0.00738	0.230	0.00179	0.100	0.00078	0.045	0.00035	206
156	0.867	0.00750	0.213	0.00182	0.093	0.00079	0.042	0.00036	204
158	0.798	0.00760	0.196	0.00185	0.086	0.00080	0.039	0.00036	202
160	0.728	0.00770	0.179	0.00187	0.078	0.00081	0.035	0.00037	200
162	0.658	0.00779	0.162	0.00190	0.071	0.00082	0.032	0.00037	198
164	0.587	0.00787	0.144	0.00192	0.063	0.00083	0.028	0.00037	196
166	0.515	0.00794	0.127	0.00193	0.055	0.00084	0.025	0.00038	194
168	0.442	0.00800	0.109	0.00195	0.048	0.00085	0.021	0.00038	192
170	0.369	0.00805	0.091	0.00196	0.040	0.00085	0.018	0.00038	190
172	0.296	0.00810	0.073	0.00197	0.032	0.00086	0.014	0.00039	188
174	0.222	0.00813	0.055	0.00198	0.024	0.00086	0.011	0.00039	186
176	0.148	0.00815	0.037	0.00199	0.016	0.00086	0.007	0.00039	184
178	0.074	0.00817	0.018	0.00199	0.008	0.00087	0.004	0.00039	182
180	0.000	0.00817	0.000	0.00199	0.000	0.00087	0.000	0.00039	180

Saturnstrabanten 1932

Bewegung der mittleren Länge L und der mittleren Anomalie M

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea		Titan	
	L	M	L	M	L	L	M	L	M	L	M
1^d	381°984	380°99	262°731	262°4	190°698	131°535	131°5	79°690	79°7	22°58	22°6
1^h	15°916	15°87	10°947	10°9	7°946	5°481	5°5	3°320	3°3	0°94	0°9
2	31.832	31.75	21.894	21.9	15.892	10.961	11.0	6.641	6.6	1.88	1.9
3	47.748	47.62	32.841	32.8	23.838	16.442	16.4	9.961	10.0	2.82	2.8
4	63.664	63.50	43.788	43.7	31.783	21.923	21.9	13.282	13.3	3.76	3.8
5	79.580	79.37	54.735	54.7	39.729	27.403	27.4	16.602	16.6	4.70	4.7
6	95.496	95.25	65.683	65.6	47.675	32.884	32.9	19.923	19.9	5.64	5.7
7	111.412	111.12	76.630	76.5	55.621	38.364	38.4	23.243	23.2	6.59	6.6
8	127.328	127.00	87.577	87.5	63.566	43.845	43.8	26.564	26.6	7.53	7.5
9	143.244	142.87	98.525	98.4	71.512	49.326	49.3	29.884	29.9	8.47	8.5
10	159.160	158.74	109.472	109.3	79.458	54.806	54.8	33.205	33.2	9.41	9.4
11	175.076	174.62	120.419	120.3	87.403	60.287	60.3	36.525	36.5	10.35	10.4
12	190.992	190.49	131.366	131.2	95.349	65.767	65.7	39.845	39.8	11.29	11.3
13	206.908	206.37	142.313	142.1	103.295	71.248	71.2	43.166	43.2	12.23	12.2
14	222.824	222.24	153.260	153.1	111.241	76.729	76.7	46.486	46.5	13.17	13.2
15	238.740	238.12	164.207	164.0	119.186	82.209	82.2	49.806	49.8	14.11	14.1
16	254.656	253.99	175.155	174.9	127.132	87.690	87.7	53.127	53.1	15.05	15.1
17	270.572	269.86	186.102	185.9	135.078	93.171	93.1	56.447	56.5	15.99	16.0
18	286.488	285.74	197.049	196.8	143.024	98.651	98.6	59.768	59.8	16.93	17.0
19	302.404	301.61	207.996	207.7	150.970	104.132	104.1	63.088	63.1	17.88	17.9
20	318.320	317.49	218.943	218.7	158.916	109.613	109.6	66.409	66.4	18.82	18.8
21	334.236	333.36	229.890	229.6	166.861	115.093	115.1	69.729	69.7	19.76	19.8
22	350.152	349.24	240.837	240.5	174.806	120.574	120.5	73.050	73.1	20.70	20.7
23	366.068	365.11	251.784	251.5	182.752	126.054	126.0	76.370	76.4	21.64	21.7
1^m	0°265	0°26	0°182	0°2	0°132	0°091	0°1	0°055	0°0	0°02	0°0
2	0.531	0.53	0.365	0.4	0.265	0.183	0.2	0.111	0.1	0.03	0.0
3	0.796	0.79	0.547	0.5	0.397	0.274	0.3	0.166	0.1	0.05	0.0
4	1.061	1.06	0.730	0.7	0.530	0.365	0.4	0.221	0.2	0.06	0.1
5	1.326	1.32	0.912	0.9	0.662	0.457	0.5	0.277	0.2	0.08	0.1
6	1.592	1.58	1.095	1.1	0.795	0.548	0.5	0.332	0.3	0.09	0.1
7	1.857	1.85	1.278	1.3	0.927	0.640	0.6	0.387	0.3	0.11	0.1
8	2.122	2.11	1.460	1.4	1.060	0.731	0.7	0.442	0.4	0.13	0.1
9	2.388	2.38	1.642	1.6	1.192	0.822	0.8	0.497	0.4	0.14	0.1
10	2.653	2.64	1.825	1.8	1.324	0.914	0.9	0.553	0.5	0.16	0.2
20	5.305	5.29	3.649	3.6	2.649	1.827	1.8	1.107	1.1	0.31	0.3
30	7.958	7.93	5.474	5.4	3.973	2.740	2.7	1.660	1.6	0.47	0.5
40	10.611	10.58	7.298	7.3	5.297	3.654	3.7	2.214	2.2	0.63	0.6
50	13.263	13.22	9.123	9.1	6.622	4.567	4.6	2.767	2.7	0.78	0.8
10^s	0°044	0°04	0°030	0°0	0°022	0°015	0°0	0°009	0°0	0°00	0°0
20	0.088	0.09	0.061	0.1	0.044	0.030	0.0	0.018	0.0	0.01	0.0
30	0.133	0.13	0.091	0.1	0.066	0.046	0.0	0.028	0.0	0.01	0.0
40	0.177	0.17	0.122	0.1	0.088	0.061	0.1	0.037	0.0	0.01	0.0
50	0.221	0.22	0.152	0.2	0.110	0.076	0.1	0.046	0.0	0.01	0.0

0h Welt-Zeit	ϑ					γ	N	J	ω
	Mimas	Encel.	Tethys	Dione	Rhea	Rhea	Saturnsring		
1932									
Jan. −12	164.5°	159.0°	127.2°	265.3°	308.4°	20.67	127.707°	6.788°	41.963°
+ 4	148.5	152.2	124.0	263.9	307.9	20.68	127.709	6.787	41.961
20	132.5	145.5	120.8	262.5	307.5	20.70	127.711	6.787	41.960
Febr. 5	116.5	138.8	117.6	261.2	307.1	20.72	127.712	6.787	41.959
21	100.5	132.1	114.5	259.8	306.6	20.73	127.714	6.787	41.958
März 8	84.5	125.5	111.3	258.5	306.2	20.75	127.716	6.786	41.956
24	68.5	118.8	108.1	257.1	305.7	20.76	127.718	6.786	41.955
April 9	52.4	112.2	104.9	255.7	305.3	20.78	127.720	6.786	41.954
25	36.4	105.5	101.7	254.4	304.8	20.79	127.721	6.786	41.952
Mai 11	20.4	98.7	98.6	253.0	304.4	20.80	127.723	6.786	41.951
27	4.4	92.0	95.4	251.7	303.9	20.82	127.725	6.786	41.950
Juni 12	348.4	85.4	92.2	250.3	303.5	20.83	127.727	6.785	41.949
28	332.4	78.7	89.0	248.9	303.1	20.85	127.729	6.785	41.947
Juli 14	316.4	72.0	85.8	247.6	302.6	20.86	127.730	6.785	41.946
30	300.4	65.3	82.7	246.2	302.2	20.87	127.732	6.785	41.945
Aug. 15	284.4	58.6	79.5	244.9	301.7	20.89	127.734	6.784	41.944
31	268.4	51.9	76.3	243.5	301.3	20.90	127.736	6.784	41.942
Sept. 16	252.4	45.2	73.1	242.2	300.8	20.92	127.738	6.784	41.941
Okt. 2	236.4	38.5	70.0	240.8	300.4	20.93	127.740	6.784	41.940
18	220.4	31.8	66.8	239.4	300.0	20.94	127.741	6.784	41.938
Nov. 3	204.4	25.2	63.6	238.1	299.5	20.96	127.743	6.784	41.937
19	188.4	18.5	60.4	236.7	299.1	20.97	127.745	6.783	41.936
Dez. 5	172.4	11.7	57.3	235.4	298.6	20.99	127.747	6.783	41.935
21	156.4	5.0	54.1	234.0	298.2	21.00	127.748	6.783	41.934
37	140.4	358.4	50.9	232.6	297.8	21.01	127.750	6.783	41.932

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale

$u-U$		Mimas	Encel.	Tethys	Dione	Rhea	$u-U$	
0°	360°	−6+	−7+	−9+	−11+	−16+	180°	180°
10	350	−6+	−7+	−9+	−11+	−16+	170	190
20	340	−5+	−7+	−8+	−11+	−15+	160	200
30	330	−5+	−6+	−8+	−10+	−14+	150	210
40	320	−4+	−6+	−7+	− 9+	−12+	140	220
50	310	−3+	−5+	−6+	− 8+	−10+	130	230
60	300	−3+	−4+	−4+	− 6+	− 8+	120	240
70	290	−2+	−3+	−3+	− 4+	− 6+	110	250
80	280	−1+	−1+	−2+	− 2+	− 3+	100	260
90	270	0	0	0	0	0	90	270

0h Welt-Zeit	HYPERION U		HYPERION B		HYPERION P	
1932						
April 9	177.585°	110	+19.941°	35	+6.899°	0
11	177.695	104	19.906	33	6.899	0
13	177.799	98	19.873	31	6.899	1
15	177.897	93	19.842	29	6.898	0
17	177.990	87	19.813	27	6.898	0
19	178.077	80	+19.786	25	+6.898	0
21	178.157	74	19.761	23	6.898	1
23	178.231	68	19.738	20	6.897	0
25	178.299	62	19.718	18	6.897	0
27	178.361	55	19.700	16	6.897	0
29	178.416	49	+19.684	14	+6.897	0
Mai 1	178.465	42	19.670	11	6.897	0
3	178.507	36	19.659	9	6.897	0
5	178.543	30	19.650	7	6.897	0
7	178.573	23	19.643	5	6.897	0
9	178.596	16	+19.638	2	+6.897	0
11	178.612	10	19.636	0	6.897	0
13	178.622	4	19.636	3	6.897	1
15	178.626	3	19.639	5	6.898	0
17	178.623	9	19.644	7	6.898	1
19	178.614	16	+19.651	10	+6.899	0
21	178.598	22	19.661	12	6.899	0
23	178.576	28	19.673	14	6.899	1
25	178.548	35	19.687	16	6.900	0
27	178.513	41	19.703	19	6.900	1
29	178.472	47	+19.722	21	+6.901	0
31	178.425	53	19.743	23	6.901	1
Juni 2	178.372	59	19.766	25	6.902	1
4	178.313	65	19.791	27	6.903	0
6	178.248	70	19.818	29	6.903	1
8	178.178	76	+19.847	31	+6.904	1
10	178.102	82	19.878	33	6.905	1
12	178.020	87	19.911	35	6.906	0
14	177.933	93	19.946	36	6.906	1
16	177.840	97	19.982	38	6.907	1
18	177.743	102	+20.020	40	+6.908	1
20	177.641	107	20.060	41	6.909	0
22	177.534	111	20.101	43	6.909	1
24	177.423	115	20.144	44	6.910	1
26	177.308		+20.188		+6.911	

0h Welt-Zeit	HYPERION U		HYPERION B		HYPERION P	
1932						
Juni 26	177.308°	120	+20.188°	45	+6.911°	1
28	177.188	123	20.233	46	6.912	0
30	177.065	127	20.279	48	6.912	1
Juli 2	176.938	130	20.327	48	6.913	1
4	176.808	134	20.375	50	6.914	1
6	176.674	136	+20.425	50	+6.915	1
8	176.538	138	20.475	51	6.916	1
10	176.400	141	20.526	52	6.917	1
12	176.259	143	20.578	52	6.918	0
14	176.116	144	20.630	52	6.918	0
16	175.972	146	+20.682	53	+6.918	1
18	175.826	147	20.735	53	6.919	0
20	175.679	148	20.788	53	6.919	0
22	175.531	148	20.841	53	6.919	0
24	175.383	149	20.894	53	6.919	1
26	175.234	149	+20.947	53	+6.920	0
28	175.085	148	21.000	52	6.920	0
30	174.937	148	21.052	52	6.920	0
Aug. 1	174.789	146	21.104	51	6.920	0
3	174.643	145	21.155	50	6.920	0
5	174.498	143	+21.205	50	+6.920	0
7	174.355	141	21.255	49	6.920	0
9	174.214	139	21.304	48	6.920	0
11	174.075	137	21.352	47	6.920	0
13	173.938	135	21.399	46	6.920	1
15	173.803	131	+21.445	45	+6.919	0
17	173.672	128	21.490	43	6.919	0
19	173.544	124	21.533	42	6.919	1
21	173.420	121	21.575	41	6.918	0
23	173.299	116	21.616	39	6.918	1
25	173.183	112	+21.655	38	+6.917	0
27	173.071	107	21.693	36	6.917	1
29	172.964	103	21.729	35	6.916	0
31	172.861	98	21.764	33	6.916	0
Sept. 2	172.763	92	21.797	31	6.916	1
4	172.671	87	+21.828	29	+6.915	0
6	172.584	81	21.857	27	6.915	0
8	172.503	75	21.884	25	6.915	0
10	172.428	70	21.909	23	6.915	1
12	172.358		+21.932		+6.914	

0h Welt-Zeit	HYPERION U	Δ	B	Δ	P	Δ	0h Welt-Zeit	JAPETUS U	Δ	B	Δ	P	Δ
1932							1932						
Sept. 12	172°.358	64	+21°.932	22	+6°.914	0	April 9	255°.832	106	+5°.500	29	+3°.727	28
14	172.294	58	21.954	20	6.914	0	11	255.938	100	5.471	28	3.699	26
16	172.236	52	21.974	18	6.914	0	13	256.038	94	5.443	26	3.673	25
18	172.184	45	21.992	16	6.914	1	15	256.132	89	5.417	24	3.648	23
20	172.139	39	22.008	14	6.913	0	17	256.221	83	5.393	22	3.625	22
22	172.100	32	+22.022	11	+6.913	0	19	256.304	77	+5.371	20	+3.603	20
24	172.068	25	22.033	9	6.913	0	21	256.381	71	5.351	19	3.583	19
26	172.043	19	22.042	7	6.913	0	23	256.452	66	5.332	17	3.564	17
28	172.024	12	22.049	5	6.913	0	25	256.518	59	5.315	15	3.547	16
30	172.012	6	22.054	3	6.913	0	27	256.577	53	5.300	13	3.531	14
Okt. 2	172.006	2	+22.057	1	+6.913	0	29	256.630	47	+5.287	11	+3.517	12
4	172.008	9	22.058	1	6.913	1	Mai 1	256.677	41	5.276	9	3.505	11
6	172.017	15	22.057	4	6.914	0	3	256.718	35	5.267	7	3.494	9
8	172.032	22	22.053	6	6.914	0	5	256.753	28	5.260	5	3.485	7
10	172.054	29	22.047	8	6.914	0	7	256.781	22	5.255	3	3.478	6
12	172.083	36	+22.039	10	+6.914	1	9	256.803	16	+5.252	2	+3.472	4
14	172.119	43	22.029	12	6.915	0	11	256.819	10	5.250	0	3.468	2
16	172.162	49	22.017	14	6.915	1	13	256.829	3	5.250	3	3.466	1
18	172.211	56	22.003	16	6.916	0	15	256.832	3	5.253	5	3.465	1
20	172.267	62	21.987	18	6.916	1	17	256.829	9	5.258	7	3.466	2
22	172.329	69	+21.969	21	+6.917	0	19	256.820	15	+5.265	8	+3.468	4
24	172.398	76	21.948	23	6.917	1	21	256.805	21	5.273	11	3.472	6
26	172.474	82	21.925	25	6.918	0	23	256.784	28	5.284	13	3.478	7
28	172.556	89	21.900	26	6.918	1	25	256.756	34	5.297	14	3.485	9
30	172.645	95	21.874	29	6.919	1	27	256.722	40	5.311	16	3.494	11
Nov. 1	172.740	101	+21.845	31	+6.920	1	29	256.682	45	+5.327	18	+3.505	12
3	172.841	108	21.814	33	6.921	0	31	256.637	51	5.345	20	3.517	14
5	172.949	113	21.781	35	6.921	1	Juni 2	256.586	57	5.365	22	3.531	15
7	173.062	119	21.746	37	6.922	1	4	256.529	63	5.387	24	3.546	17
9	173.181	125	21.709	38	6.923	1	6	256.466	68	5.411	25	3.563	18
11	173.306	130	+21.671	41	+6.924	0	8	256.398	74	+5.436	27	+3.581	19
13	173.436	136	21.630	43	6.924	1	10	256.324	79	5.463	28	3.600	21
15	173.572	141	21.587	44	6.925	1	12	256.245	83	5.491	30	3.621	22
17	173.713	147	21.543	46	6.926	1	14	256.162	89	5.521	32	3.643	24
19	173.860	152	21.497	48	6.927	0	16	256.073	94	5.553	33	3.667	25
21	174.012	157	+21.449	50	+6.927	1	18	255.979	99	+5.586	34	+3.692	26
23	174.169	162	21.399	52	6.928	1	20	255.880	103	5.620	35	3.718	27
25	174.331	166	21.347	53	6.929	1	22	255.777	107	5.655	37	3.745	29
27	174.497	171	21.294	55	6.930	0	24	255.670	111	5.692	38	3.774	29
29	174.668		+21.239		+6.930		26	255.559		+5.730		+3.803	

0h Welt-Zeit	JAPETUS U	Δ	JAPETUS B	Δ	JAPETUS P	Δ
1932						
Juni 26	255°.559	115	+5°.730	39	+3°.803	31
28	255.444	118	5.769	40	3.834	31
30	255.326	122	5.809	41	3.865	32
Juli 2	255.204	125	5.850	42	3.897	33
4	255.079	128	5.892	43	3.930	34
6	254.951	130	+5.935	44	+3.964	34
8	254.821	133	5.979	44	3.998	35
10	254.688	135	6.023	45	4.033	36
12	254.553	137	6.068	45	4.069	36
14	254.416	139	6.113	46	4.105	36
16	254.277	140	+6.159	46	+4.141	37
18	254.137	140	6.205	46	4.178	37
20	253.997	141	6.251	47	4.215	38
22	253.856	141	6.298	47	4.253	37
24	253.715	142	6.345	46	4.290	38
26	253.573	142	+6.391	46	+4.328	38
28	253.431	142	6.437	46	4.366	37
30	253.289	141	6.483	46	4.403	37
Aug. 1	253.148	139	6.529	45	4.440	37
3	253.009	138	6.574	45	4.477	36
5	252.871	137	+6.619	44	+4.513	36
7	252.734	135	6.663	43	4.549	35
9	252.599	132	6.706	43	4.584	35
11	252.467	130	6.749	42	4.619	34
13	252.337	127	6.791	41	4.653	34
15	252.210	125	+6.832	40	+4.687	33
17	252.085	121	6.872	39	4.720	32
19	251.964	118	6.911	37	4.752	31
21	251.846	114	6.948	37	4.783	30
23	251.732	110	6.985	35	4.813	29
25	251.622	106	+7.020	34	+4.842	28
27	251.516	102	7.054	32	4.870	27
29	251.414	97	7.086	31	4.897	25
31	251.317	93	7.117	30	4.922	24
Sept. 2	251.224	87	7.147	28	4.946	23
4	251.137	82	+7.175	26	+4.969	22
6	251.055	77	7.201	25	4.991	20
8	250.978	71	7.226	23	5.011	19
10	250.907	66	7.249	21	5.030	17
12	250.841		+7.270		+5.047	

0h Welt-Zeit	JAPETUS U	Δ	JAPETUS B	Δ	JAPETUS P	Δ
1932						
Sept. 12	250°.841	60	+7°.270	20	+5°.047	16
14	250.781	55	7.290	18	5.063	14
16	250.726	49	7.308	16	5.077	12
18	250.677	42	7.324	14	5.089	11
20	250.635	37	7.338	12	5.100	10
22	250.598	30	+7.350	11	+5.110	8
24	250.568	24	7.361	8	5.118	6
26	250.544	18	7.369	6	5.124	5
28	250.526	11	7.375	5	5.129	3
30	250.515	5	7.380	3	5.132	2
Okt. 2	250.510	2	+7.383	0	+5.134	0
4	250.512	8	7.383	1	5.134	2
6	250.520	14	7.382	3	5.132	4
8	250.534	21	7.379	5	5.128	6
10	250.555	27	7.374	7	5.122	7
12	250.582	34	+7.367	9	+5.115	9
14	250.616	40	7.358	11	5.106	10
16	250.656	47	7.347	13	5.096	12
18	250.703	53	7.334	15	5.084	14
20	250.756	59	7.319	17	5.070	15
22	250.815	65	+7.302	18	+5.055	17
24	250.880	72	7.284	20	5.038	19
26	250.952	78	7.264	22	5.019	20
28	251.030	84	7.242	24	4.999	22
30	251.114	90	7.218	26	4.977	24
Nov. 1	251.204	95	+7.192	27	+4.953	25
3	251.299	102	7.165	29	4.928	27
5	251.401	107	7.136	31	4.901	28
7	251.508	113	7.105	33	4.873	29
9	251.621	118	7.072	35	4.844	31
11	251.739	124	+7.037	36	+4.813	32
13	251.863	129	7.001	38	4.781	34
15	251.992	134	6.963	40	4.747	35
17	252.126	139	6.923	41	4.712	37
19	252.265	144	6.882	43	4.675	38
21	252.409	149	+6.839	44	+4.637	39
23	252.558	154	6.795	45	4.598	40
25	252.712	159	6.750	47	4.558	41
27	252.871	163	6.703	48	4.517	43
29	253.034		+6.655		+4.474	

0h Welt-Zeit	HYPERION $\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
1932	s	s	″	″
April 9	− 5.0	−3.6	−52	+18
10	− 8.6	−2.7	−34	+22
11	−11.3	−1.4	−12	+23
12	−12.7	+0.1	+11	+22
13	−12.6	+1.5	+33	+19
14	−11.1	+2.7	+52	+12
15	− 8.4	+3.5	+64	+ 7
16	− 4.9	+4.0	+71	0
17	− 0.9	+4.1	+71	− 6
18	+ 3.2	+3.9	+65	−11
19	+ 7.1	+3.4	+54	−14
20	+10.5	+2.6	+40	−18
21	+13.1	+1.8	+22	−19
22	+14.9	+0.8	+ 3	−19
23	+15.7	−0.3	−16	−18
24	+15.4	−1.1	−34	−17
25	+14.3	−2.2	−51	−12
26	+12.1	−3.2	−63	− 8
27	+ 8.9	−3.9	−71	− 2
28	+ 5.0	−4.3	−73	+ 4
29	+ 0.7	−4.4	−69	+11
30	− 3.7	−4.0	−58	+16
Mai 1	− 7.7	−3.2	−42	+21
2	−10.9	−1.9	−21	+24
3	−12.8	−0.5	+ 3	+24
4	−13.3	+1.1	+27	+20
5	−12.2	+2.4	+47	+15
6	− 9.8	+3.4	+62	+ 9
7	− 6.4	+4.0	+71	+ 3
8	− 2.4	+4.2	+74	− 4
9	+ 1.8	+4.1	+70	− 9
10	+ 5.9	+3.7	+61	−14
11	+ 9.6	+3.0	+47	−18
12	+12.6	+2.2	+29	−19
13	+14.8	+1.2	+10	−20
14	+16.0	+0.2	−10	−20
15	+16.2	−0.9	−30	−17
16	+15.3	−2.0	−47	−14
17	+13.3	−3.0	−61	−10
18	+10.3		−71	

0h Welt-Zeit	HYPERION $\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
1932	s	s	″	″
Mai 18	+10.3	−3.8	−71	− 5
19	+ 6.5	−4.3	−76	+ 3
20	+ 2.2	−4.6	−73	+ 9
21	− 2.4	−4.4	−64	+15
22	− 6.8	−3.6	−49	+21
23	−10.4	−2.4	−28	+24
24	−12.8	−1.0	− 4	+25
25	−13.8	+0.7	+21	+22
26	−13.1	+2.1	+43	+18
27	−11.0	+3.2	+61	+11
28	− 7.8	+4.0	+72	+ 5
29	− 3.8	+4.3	+77	− 2
30	+ 0.5	+4.4	+75	− 8
31	+ 4.9	+3.9	+67	−14
Juni 1	+ 8.8	+3.4	+53	−17
2	+12.2	+2.5	+36	−20
3	+14.7	+1.6	+16	−20
4	+16.3	+0.5	− 4	−21
5	+16.8	−0.7	−25	−19
6	+16.1	−1.8	−44	−16
7	+14.3	−2.8	−60	−12
8	+11.5	−3.8	−72	− 6
9	+ 7.7	−4.4	−78	+ 1
10	+ 3.3	−4.7	−77	+ 7
11	− 1.4	−4.6	−70	+14
12	− 6.0	−3.9	−56	+21
13	− 9.9	−2.9	−35	+25
14	−12.8	−1.3	−10	+26
15	−14.1	+0.3	+16	+24
16	−13.8	+1.8	+40	+19
17	−12.0	+3.1	+59	+14
18	− 8.9	+4.0	+73	+ 7
19	− 4.9	+4.4	+80	− 1
20	− 0.5	+4.5	+79	− 7
21	+ 4.0	+4.2	+72	−13
22	+ 8.2	+3.6	+59	−17
23	+11.8	+2.8	+42	−20
24	+14.6	+1.9	+22	−21
25	+16.5	+0.7	+ 1	−22
26	+17.2		−21	

0h Welt-Zeit	HYPERION $\alpha_{tr} - \alpha_{pl}$		$\delta_{tr} - \delta_{pl}$	
1932	s	s	″	″
Juni 26	+17.2	−0.4	−21	−21
27	+16.8	−1.7	−42	−17
28	+15.1	−2.7	−59	−13
29	+12.4	−3.7	−72	− 8
30	+ 8.7	−4.4	−80	− 1
Juli 1	+ 4.3	−4.8	−81	+ 6
2	− 0.5	−4.8	−75	+14
3	− 5.3	−4.2	−61	+20
4	− 9.5	−3.1	−41	+25
5	−12.6	−1.7	−16	+27
6	−14.3	0.0	+11	+25
7	−14.3	+1.6	+36	+22
8	−12.7	+3.0	+58	+16
9	− 9.7	+3.9	+74	+ 8
10	− 5.8	+4.5	+82	+ 1
11	− 1.3	+4.6	+83	− 6
12	+ 3.3	+4.4	+77	−13
13	+ 7.7	+3.8	+64	−17
14	+11.5	+3.0	+47	−20
15	+14.5	+2.0	+27	−22
16	+16.5	+0.9	+ 5	−23
17	+17.4	−0.3	−18	−21
18	+17.1	−1.5	−39	−19
19	+15.6	−2.6	−58	−15
20	+13.0	−3.6	−73	− 9
21	+ 9.4	−4.4	−82	− 2
22	+ 5.0	−4.9	−84	+ 5
23	+ 0.1	−4.9	−79	+13
24	− 4.8	−4.3	−66	+20
25	− 9.1	−3.3	−46	+25
26	−12.4	−1.9	−21	+27
27	−14.3	−0.2	+ 6	+27
28	−14.5	+1.4	+33	+23
29	−13.1	+2.8	+56	+17
30	−10.3	+3.9	+73	+10
31	− 6.4	+4.5	+83	+ 2
Aug. 1	− 1.9	+4.6	+85	− 5
2	+ 2.7	+4.4	+80	−12
3	+ 7.1	+3.9	+68	−16
4	+11.0		+52	

Saturnstrabanten 1932

0h Welt-Zeit 1932	HYPERION $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
Aug. 4	+11.0	+3.2	+52	−21
5	+14.2	+2.1	+31	−22
6	+16.3	+1.0	+ 9	−24
7	+17.3	−0.1	−15	−22
8	+17.2	−1.4	−37	−20
9	+15.8	−2.5	−57	−15
10	+13.3	−3.5	−72	−10
11	+ 9.8	−4.3	−82	− 4
12	+ 5.5	−4.8	−86	+ 4
13	+ 0.7	−4.9	−82	+13
14	− 4.2	−4.4	−69	+19
15	− 8.6	−3.4	−50	+24
16	−12.0	−2.1	−26	+28
17	−14.1	−0.4	+ 2	+28
18	−14.5	+1.2	+30	+24
19	−13.3	+2.7	+54	+18
20	−10.6	+3.7	+72	+11
21	− 6.9	+4.4	+83	+ 3
22	− 2.5	+4.6	+86	− 4
23	+ 2.1	+4.4	+82	−11
24	+ 6.5	+3.9	+71	−16
25	+10.4	+3.2	+55	−21
26	+13.6	+2.2	+34	−22
27	+15.8	+1.2	+12	−23
28	+17.0	0.0	−11	−23
29	+17.0	−1.2	−34	−20
30	+15.8	−2.3	−54	−16
31	+13.5	−3.4	−70	−11
Sept. 1	+10.1	−4.2	−81	− 5
2	+ 5.9	−4.7	−86	+ 4
3	+ 1.2	−4.8	−82	+11
4	− 3.6	−4.3	−71	+18
5	− 7.9	−3.5	−53	+24
6	−11.4	−2.2	−29	+27
7	−13.6	−0.6	− 2	+27
8	−14.2	+1.0	+25	+25
9	−13.2	+2.4	+50	+19
10	−10.8	+3.5	+69	+12
11	− 7.3	+4.2	+81	+ 4
12	− 3.1		+85	

0h Welt-Zeit 1932	HYPERION $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
Sept. 12	− 3.1	+4.5	+85	− 3
13	+ 1.4	+4.4	+82	−10
14	+ 5.8	+3.9	+72	−15
15	+ 9.7	+3.2	+57	−20
16	+12.9	+2.3	+37	−22
17	+15.2	+1.3	+15	−23
18	+16.5	+0.1	− 8	−22
19	+16.6	−1.0	−30	−20
20	+15.6	−2.2	−50	−17
21	+13.4	−3.1	−67	−11
22	+10.3	−3.9	−78	− 5
23	+ 6.4	−4.5	−83	+ 2
24	+ 1.9	−4.7	−81	+ 9
25	− 2.8	−4.4	−72	+17
26	− 7.2	−3.5	−55	+23
27	−10.7	−2.3	−32	+26
28	−13.0	−0.8	− 6	+27
29	−13.8	+0.7	+21	+25
30	−13.1	+2.2	+46	+19
Okt. 1	−10.9	+3.2	+65	+13
2	− 7.7	+4.0	+78	+ 5
3	− 3.7	+4.4	+83	− 2
4	+ 0.7	+4.2	+81	− 9
5	+ 4.9	+3.9	+72	−14
6	+ 8.8	+3.2	+58	−18
7	+12.0	+2.4	+40	−21
8	+14.4	+1.4	+19	−22
9	+15.8	+0.3	− 3	−22
10	+16.1	−0.8	−25	−20
11	+15.3	−1.9	−45	−17
12	+13.4	−2.9	−62	−12
13	+10.5	−3.7	−74	− 6
14	+ 6.8	−4.3	−80	+ 1
15	+ 2.5	−4.5	−79	+ 8
16	− 2.0	−4.2	−71	+15
17	− 6.2	−3.6	−56	+21
18	− 9.8	−2.5	−35	+25
19	−12.3	−1.0	−10	+26
20	−13.3	+0.4	+16	+24
21	−12.9		+40	

0h Welt-Zeit 1932	HYPERION $\alpha_{tr} - \alpha_{pl}$ (s)	Diff.	$\delta_{tr} - \delta_{pl}$ (″)	Diff.
Okt. 21	−12.9	+1.8	+40	+20
22	−11.1	+3.0	+60	+13
23	− 8.1	+3.8	+73	+ 6
24	− 4.3	+4.1	+79	0
25	− 0.2	+4.1	+79	− 7
26	+ 3.9	+3.8	+72	−13
27	+ 7.7	+3.3	+59	−17
28	+11.0	+2.4	+42	−20
29	+13.4	+1.6	+22	−21
30	+15.0	+0.5	+ 1	−21
31	+15.5	−0.5	−20	−19
Nov. 1	+15.0	−1.6	−39	−17
2	+13.4	−2.6	−56	−13
3	+10.8	−3.4	−69	− 7
4	+ 7.4	−4.1	−76	0
5	+ 3.3	−4.3	−76	+ 6
6	− 1.0	−4.2	−70	+13
7	− 5.2	−3.6	−57	+20
8	− 8.8	−2.7	−37	+23
9	−11.5	−1.3	−14	+25
10	−12.8	+0.1	+11	+23
11	−12.7	+1.5	+34	+20
12	−11.2	+2.7	+54	+14
13	− 8.5	+3.4	+68	+ 7
14	− 5.1	+3.9	+75	+ 1
15	− 1.2	+4.0	+76	− 6
16	+ 2.8	+3.7	+70	−11
17	+ 6.5	+3.3	+59	−15
18	+ 9.8	+2.6	+44	−18
19	+12.4	+1.7	+26	−20
20	+14.1	+0.8	+ 6	−20
21	+14.9	−0.2	−14	−19
22	+14.7	−1.3	−33	−17
23	+13.4	−2.3	−50	−13
24	+11.1	−3.1	−63	− 8
25	+ 8.0	−3.8	−71	− 2
26	+ 4.2	−4.1	−73	+ 5
27	+ 0.1	−4.2	−68	+11
28	− 4.1	−3.7	−57	+17
29	− 7.8		−40	

0h Welt-Zeit	JAPETUS $\alpha_{tr} - \alpha_{pl}$	Diff.	JAPETUS $\delta_{tr} - \delta_{pl}$	Diff.
1932	s	s	"	"
April 9	−18.5	+4.7	+55	−1
11	−13.8	+5.0	+54	−2
13	− 8.8	+5.3	+52	−4
15	− 3.5	+5.5	+48	−5
17	+ 2.0	+5.5	+43	−6
19	+ 7.5	+5.3	+37	−7
21	+12.8	+5.0	+30	−8
23	+17.8	+4.5	+22	−8
25	+22.3	+4.0	+14	−9
27	+26.3	+3.3	+ 5	−9
29	+29.6	+2.5	− 4	−9
Mai 1	+32.1	+1.7	−13	−8
3	+33.8	+0.8	−21	−8
5	+34.6	−0.2	−29	−7
7	+34.4	−1.1	−36	−7
9	+33.3	−1.9	−43	−5
11	+31.4	−2.8	−48	−4
13	+28.6	−3.6	−52	−3
15	+25.0	−4.2	−55	−1
17	+20.8	−4.8	−56	0
19	+16.0	−5.2	−56	+1
21	+10.8	−5.6	−55	+3
23	+ 5.2	−5.7	−52	+4
25	− 0.5	−5.7	−48	+5
27	− 6.2	−5.6	−43	+6
29	−11.8	−5.4	−37	+7
31	−17.2	−5.0	−30	+8
Juni 2	−22.2	−4.5	−22	+9
4	−26.7	−3.9	−13	+9
6	−30.6	−3.3	− 4	+9
8	−33.9	−2.4	+ 5	+9
10	−36.3	−1.6	+14	+9
12	−37.9	−0.7	+23	+9
14	−38.6	+0.2	+32	+8
16	−38.4	+1.1	+40	+8
18	−37.3	+2.1	+48	+6
20	−35.2	+3.0	+54	+5
22	−32.2	+3.7	+59	+3
24	−28.5	+4.5	+62	+2
26	−24.0		+64	

0h Welt-Zeit	JAPETUS $\alpha_{tr} - \alpha_{pl}$	Diff.	JAPETUS $\delta_{tr} - \delta_{pl}$	Diff.
1932	s	s	"	"
Juni 26	−24.0	+5.1	+64	+ 1
28	−18.9	+5.6	+65	− 1
30	−13.3	+6.0	+64	− 3
Juli 2	− 7.3	+6.2	+61	− 5
4	− 1.1	+6.3	+56	− 6
6	+ 5.2	+6.1	+50	− 8
8	+11.3	+5.9	+42	− 9
10	+17.2	+5.4	+33	−10
12	+22.6	+4.7	+23	−11
14	+27.3	+4.0	+12	−12
16	+31.3	+3.1	0	−12
18	+34.4	+2.2	−12	−12
20	+36.6	+1.1	−24	−11
22	+37.7	+0.1	−35	−10
24	+37.8	−1.0	−45	− 9
26	+36.8	−2.0	−54	− 8
28	+34.8	−3.0	−62	− 6
30	+31.8	−3.8	−68	− 4
Aug. 1	+28.0	−4.6	−72	− 3
3	+23.4	−5.2	−75	− 1
5	+18.2	−5.7	−76	+ 2
7	+12.5	−6.0	−74	+ 3
9	+ 6.5	−6.1	−71	+ 5
11	+ 0.4	−6.1	−66	+ 7
13	− 5.7	−6.0	−59	+ 9
15	−11.7	−5.7	−50	+10
17	−17.4	−5.2	−40	+11
19	−22.6	−4.6	−29	+12
21	−27.2	−4.0	−17	+12
23	−31.2	−3.3	− 5	+12
25	−34.5	−2.4	+ 7	+13
27	−36.9	−1.5	+20	+12
29	−38.4	−0.6	+32	+11
31	−39.0	+0.3	+43	+10
Sept. 2	−38.7	+1.2	+53	+ 9
4	−37.5	+2.1	+62	+ 7
6	−35.4	+3.0	+69	+ 6
8	−32.4	+3.8	+75	+ 4
10	−28.6	+4.4	+79	+ 2
12	−24.2		+81	

0h Welt-Zeit	JAPETUS $\alpha_{tr} - \alpha_{pl}$	Diff.	JAPETUS $\delta_{tr} - \delta_{pl}$	Diff.
1932	s	s	"	"
Sept. 12	−24.2	+5.0	+81	0
14	−19.2	+5.5	+81	− 2
16	−13.7	+5.8	+79	− 4
18	− 7.9	+5.9	+75	− 6
20	− 2.0	+6.0	+69	− 8
22	+ 4.0	+5.8	+61	−10
24	+ 9.8	+5.5	+51	−11
26	+15.3	+5.0	+40	−12
28	+20.3	+4.5	+28	−13
30	+24.8	+3.8	+15	−13
Okt. 2	+28.6	+3.0	+ 2	−13
4	+31.6	+2.1	−11	−12
6	+33.7	+1.1	−23	−12
8	+34.8	+0.2	−35	−11
10	+35.0	−0.7	−46	− 9
12	+34.3	−1.6	−55	− 8
14	+32.7	−2.5	−63	− 6
16	+30.2	−3.3	−69	− 4
18	+26.9	−3.9	−73	− 2
20	+23.0	−4.5	−75	− 1
22	+18.5	−4.9	−76	+ 1
24	+13.6	−5.2	−75	+ 4
26	+ 8.4	−5.3	−71	+ 5
28	+ 3.1	−5.4	−66	+ 6
30	− 2.3	−5.3	−60	+ 8
Nov. 1	− 7.6	−5.1	−52	+ 9
3	−12.7	−4.8	−43	+10
5	−17.5	−4.3	−33	+10
7	−21.8	−3.8	−23	+11
9	−25.6	−3.2	−12	+11
11	−28.8	−2.5	− 1	+11
13	−31.3	−1.8	+10	+10
15	−33.1	−1.1	+20	+10
17	−34.2	−0.3	+30	+ 8
19	−34.5	+0.5	+38	+ 7
21	−34.0	+1.2	+45	+ 7
23	−32.8	+2.0	+52	+ 5
25	−30.8	+2.6	+57	+ 4
27	−28.2	+3.3	+61	+ 2
29	−24.9		+63	

Östliche Elongationen (in Welt-Zeit)

MIMAS

		h			h			h			h
April	9	5.1	Mai	20	16.4	Juli	1	3.4	Aug.	11	14.5
	10	3.7		21	15.0		2	2.0		12	13.1
	11	2.3		22	13.6		3	0.7		13	11.7
	12	1.0		23	12.2		3	23.3		14	10.3
	12	23.6		24	10.9		4	21.9		15	8.9
	13	22.2		25	9.5		5	20.5		16	7.5
	14	20.8		26	8.1		6	19.1		17	6.1
	15	19.5		27	6.7		7	17.7		18	4.7
	16	18.1		28	5.3		8	16.3		19	3.3
	17	16.7		29	3.9		9	14.9		20	2.0
	18	15.3		30	2.5		10	13.6		21	0.6
	19	14.0		31	1.1		11	12.2		21	23.2
	20	12.6		31	23.8		12	10.8		22	21.8
	21	11.2	Juni	1	22.4		13	9.4		23	20.5
	22	9.8		2	21.0		14	8.0		24	19.1
	23	8.5		3	19.6		15	6.6		25	17.7
	24	7.1		4	18.2		16	5.2		26	16.3
	25	5.7		5	16.8		17	3.8		27	14.9
	26	4.3		6	15.4		18	2.4		28	13.6
	27	2.9		7	14.0		19	1.1		29	12.2
	28	1.5		8	12.7		19	23.7		30	10.8
	29	0.1		9	11.3		20	22.3		31	9.4
	29	22.8		10	9.9		21	20.9	Sept.	1	8.0
	30	21.4		11	8.5		22	19.6		2	6.6
Mai	1	20.0		12	7.1		23	18.2		3	5.2
	2	18.6		13	5.7		24	16.8		4	3.8
	3	17.3		14	4.3		25	15.4		5	2.5
	4	15.9		15	2.9		26	14.0		6	1.1
	5	14.5		16	1.5		27	12.7		6	23.7
	6	13.1		17	0.2		28	11.3		7	22.3
	7	11.7		17	22.8		29	9.9		8	21.0
	8	10.4		18	21.4		30	8.5		9	19.6
	9	9.0		19	20.0		31	7.1		10	18.2
	10	7.6		20	18.7	Aug.	1	5.7		11	16.8
	11	6.2		21	17.3		2	4.3		12	15.4
	12	4.8		22	15.9		3	2.9		13	14.1
	13	3.4		23	14.5		4	1.6		14	12.7
	14	2.0		24	13.1		5	0.2		15	11.3
	15	0.6		25	11.8		5	22.8		16	9.9
	15	23.3		26	10.4		6	21.4		17	8.5
	16	21.9		27	9.0		7	20.0		18	7.1
	17	20.5		28	7.6		8	18.6		19	5.7
	18	19.1		29	6.2		9	17.2		20	4.3
	19	17.8		30	4.8		10	15.8		21	3.0

Östliche Elongationen (in Welt-Zeit)

MIMAS	h
Sept. 22	1.6
23	0.2
23	22.8
24	21.5
25	20.1
26	18.7
27	17.3
28	15.9
29	14.6
30	13.2
Okt. 1	11.8
2	10.4
3	9.0
4	7.6
5	6.3
6	4.9
7	3.5
8	2.1
9	0.8
9	23.4
10	22.0
11	20.6
12	19.3
13	17.9
14	16.5
15	15.1
16	13.8
17	12.4
18	11.0
19	9.6
20	8.2
21	6.9
22	5.5
23	4.1
24	2.7
25	1.4
26	0.0
26	22.6
27	21.2
28	19.9
29	18.5
30	17.1
31	15.7
Nov. 1	14.4

MIMAS	h
Nov. 2	13.0
3	11.6
4	10.2
5	8.8
6	7.5
7	6.1
8	4.7
9	3.3
10	2.0
11	0.6
11	23.2
12	21.8
13	20.5
14	19.1
15	17.7
16	16.3
17	15.0
18	13.6
19	12.2
20	10.8
21	9.4
22	8.1
23	6.7
24	5.3
25	3.9
26	2.6
27	1.2
27	23.8
28	22.4
29	21.1

ENCELADUS	h
April 9	23.3
11	8.2
12	17.1
14	2.0
15	10.8
16	19.7
18	4.6
19	13.5
20	22.4

ENCELADUS	h
April 22	7.3
23	16.1
25	1.0
26	9.9
27	18.8
29	3.7
30	12.5
Mai 1	21.4
3	6.3
4	15.2
6	0.1
7	9.0
8	17.8
10	2.7
11	11.6
12	20.5
14	5.4
15	14.3
16	23.1
18	8.0
19	16.9
21	1.8
22	10.7
23	19.6
25	4.4
26	13.3
27	22.2
29	7.1
30	16.0
Juni 1	0.9
2	9.7
3	18.6
5	3.5
6	12.4
7	21.3
9	6.2
10	15.0
11	23.9
13	8.8
14	17.7
16	2.5
17	11.4
18	20.3
20	5.2

ENCELADUS	h
Juni 21	14.0
22	22.9
24	7.8
25	16.7
27	1.5
28	10.4
29	19.3
Juli 1	4.1
2	13.0
3	21.9
5	6.8
6	15.6
8	0.5
9	9.4
10	18.3
12	3.1
13	12.0
14	20.9
16	5.8
17	14.6
18	23.5
20	8.4
21	17.3
23	2.1
24	11.0
25	19.9
27	4.8
28	13.6
29	22.5
31	7.4
Aug. 1	16.3
3	1.2
4	10.0
5	18.9
7	3.8
8	12.7
9	21.6
11	6.5
12	15.3
14	0.2
15	9.1
16	18.0
18	2.8
19	11.7

Östliche Elongationen (in Welt-Zeit)

ENCELADUS

Datum		h
Aug.	20	20.6
	22	5.5
	23	14.3
	24	23.2
	26	8.1
	27	17.0
	29	1.8
	30	10.7
	31	19.6
Sept.	2	4.5
	3	13.4
	4	22.3
	6	7.1
	7	16.0
	9	0.9
	10	9.8
	11	18.7
	13	3.6
	14	12.4
	15	21.3
	17	6.2
	18	15.1
	20	0.0
	21	8.9
	22	17.8
	24	2.7
	25	11.5
	26	20.4
	28	5.3
	29	14.2
	30	23.1
Okt.	2	8.0
	3	16.9
	5	1.8
	6	10.7
	7	19.6
	9	4.5
	10	13.4
	11	22.2
	13	7.1
	14	16.0
	16	0.9
	17	9.8
	18	18.7

ENCELADUS

Datum		h
Okt.	20	3.6
	21	12.5
	22	21.4
	24	6.3
	25	15.2
	27	0.1
	28	8.9
	29	17.8
	31	2.7
Nov.	1	11.6
	2	20.5
	4	5.4
	5	14.3
	6	23.2
	8	8.1
	9	17.0
	11	1.9
	12	10.8
	13	19.7
	15	4.6
	16	13.5
	17	22.4
	19	7.3
	20	16.2
	22	1.1
	23	10.0
	24	18.9
	26	3.8
	27	12.7
	28	21.5
	30	6.4

TETHYS

Datum		h
April	10	5.3
	12	2.6
	13	23.9
	15	21.2
	17	18.5
	19	15.9
	21	13.2
	23	10.5

TETHYS

Datum		h
April	25	7.8
	27	5.1
	29	2.4
	30	23.7
Mai	2	21.0
	4	18.4
	6	15.7
	8	13.0
	10	10.3
	12	7.6
	14	4.9
	16	2.2
	17	23.5
	19	20.8
	21	18.1
	23	15.4
	25	12.7
	27	10.0
	29	7.3
	31	4.6
Juni	2	1.9
	3	23.2
	5	20.4
	7	17.7
	9	15.0
	11	12.3
	13	9.6
	15	6.9
	17	4.2
	19	1.5
	20	22.8
	22	20.1
	24	17.4
	26	14.7
	28	12.0
	30	9.3
Juli	2	6.6
	4	3.9
	6	1.2
	7	22.4
	9	19.7
	11	17.0
	13	14.3
	15	11.6

TETHYS

Datum		h
Juli	17	8.9
	19	6.2
	21	3.5
	23	0.8
	24	22.0
	26	19.3
	28	16.6
	30	13.9
Aug.	1	11.2
	3	8.5
	5	5.8
	7	3.1
	9	0.3
	10	21.6
	12	18.9
	14	16.2
	16	13.5
	18	10.8
	20	8.1
	22	5.4
	24	2.7
	26	0.0
	27	21.3
	29	18.6
	31	15.9
Sept.	2	13.2
	4	10.5
	6	7.8
	8	5.1
	10	2.4
	11	23.7
	13	21.0
	15	18.3
	17	15.6
	19	12.9
	21	10.2
	23	7.5
	25	4.8
	27	2.2
	28	23.5
	30	20.8
Okt.	2	18.1
	4	15.4
	6	12.7

Östliche Elongationen (in Welt-Zeit)

TETHYS

		h
Okt.	8	10.0
	10	7.3
	12	4.7
	14	2.0
	15	23.3
	17	20.6
	19	17.9
	21	15.2
	23	12.6
	25	9.9
	27	7.2
	29	4.5
	31	1.8
Nov.	1	23.2
	3	20.5
	5	17.8
	7	15.1
	9	12.5
	11	9.8
	13	7.1
	15	4.4
	17	1.8
	18	23.1
	20	20.4
	22	17.7
	24	15.1
	26	12.4
	28	9.7
	30	7.1

DIONE

		h
April	9	6.7
	12	0.4
	14	18.1
	17	11.8
	20	5.5
	22	23.2
	25	16.9
	28	10.6
Mai	1	4.3
	3	22.0
	6	15.6

DIONE

		h
Mai	9	9.3
	12	3.0
	14	20.7
	17	14.4
	20	8.1
	23	1.7
	25	19.4
	28	13.1
	31	6.8
Juni	3	0.5
	5	18.1
	8	11.8
	11	5.4
	13	23.1
	16	16.7
	19	10.4
	22	4.0
	24	21.7
	27	15.3
	30	9.0
Juli	3	2.7
	5	20.3
	8	14.0
	11	7.6
	14	1.3
	16	18.9
	19	12.6
	22	6.2
	24	23.9
	27	17.5
	30	11.2
Aug.	2	4.8
	4	22.5
	7	16.1
	10	9.8
	13	3.4
	15	21.1
	18	14.7
	21	8.4
	24	2.0
	26	19.7
	29	13.3
Sept.	1	7.0
	4	0.7

DIONE

		h
Sept.	6	18.4
	9	12.1
	12	5.7
	14	23.4
	17	17.1
	20	10.8
	23	4.5
	25	22.2
	28	15.8
Okt.	1	9.5
	4	3.2
	6	20.9
	9	14.6
	12	8.3
	15	2.0
	17	19.7
	20	13.4
	23	7.1
	26	0.8
	28	18.6
	31	12.3
Nov.	3	6.0
	5	23.7
	8	17.4
	11	11.1
	14	4.9
	16	22.6
	19	16.3
	22	10.0
	25	3.7
	27	21.5
	30	15.2

RHEA

		h
April	12	10.4
	16	22.9
	21	11.3
	25	23.8
	30	12.2
Mai	5	0.7
	9	13.1
	14	1.5

RHEA

		h
Mai	18	13.9
	23	2.3
	27	14.7
Juni	1	3.1
	5	15.5
	10	3.8
	14	16.2
	19	4.5
	23	16.9
	28	5.2
Juli	2	17.6
	7	5.9
	11	18.3
	16	6.6
	20	18.9
	25	7.2
	29	19.5
Aug.	3	7.8
	7	20.1
	12	8.5
	16	20.8
	21	9.2
	25	21.5
	30	9.9
Sept.	3	22.2
	8	10.6
	12	22.9
	17	11.3
	21	23.7
	26	12.2
Okt.	1	0.6
	5	13.0
	10	1.4
	14	13.9
	19	2.3
	23	14.8
	28	3.3
Nov.	1	15.8
	6	4.3
	10	16.8
	15	5.3
	19	17.8
	24	6.3
	28	18.8

Elongationen und Konjunktionen (in Welt-Zeit)

TITAN

Datum	h	
April 11	15.9	Östl. El.
15	19.5	Unt. Konj.
19	22.1	Westl. El.
23	18.2	Ob. Konj.
27	15.2	Östl. El.
Mai 1	18.8	Unt. Konj.
5	21.2	Westl. El.
9	17.2	Ob. Konj.
13	14.1	Östl. El.
17	17.6	Unt. Konj.
21	19.9	Westl. El.
25	15.8	Ob. Konj.
29	12.6	Östl. El.
Juni 2	16.0	Unt. Konj.
6	18.2	Westl. El.
10	14.0	Ob. Konj.
14	10.6	Östl. El.
18	13.9	Unt. Konj.
22	16.1	Westl. El.
26	11.8	Ob. Konj.
30	8.3	Östl. El.
Juli 4	11.5	Unt. Konj.
8	13.7	Westl. El.
12	9.5	Ob. Konj.
16	5.8	Östl. El.
20	9.0	Unt. Konj.
24	11.2	Westl. El.
28	7.0	Ob. Konj.
Aug. 1	3.2	Östl. El.
5	6.4	Unt. Konj.
9	8.8	Westl. El.
13	4.5	Ob. Konj.
17	0.8	Östl. El.
21	3.9	Unt. Konj.
25	6.5	Westl. El.
29	2.3	Ob. Konj.
Sept. 1	22.6	Östl. El.
6	1.7	Unt. Konj.
10	4.4	Westl. El.
14	0.3	Ob. Konj.
17	20.7	Östl. El.

TITAN

Datum	h	
Sept. 21	23.9	Unt. Konj.
26	2.7	Westl. El.
29	22.7	Ob. Konj.
Okt. 3	19.2	Östl. El.
7	22.5	Unt. Konj.
12	1.5	Westl. El.
15	21.6	Ob. Konj.
19	18.2	Östl. El.
23	21.6	Unt. Konj.
28	0.7	Westl. El.
31	20.9	Ob. Konj.
Nov. 4	17.7	Östl. El.
8	21.2	Unt. Konj.
13	0.4	Westl. El.
16	20.6	Ob. Konj.
20	17.6	Östl. El.
24	21.2	Unt. Konj.
29	0.5	Westl. El.

HYPERION

Datum	h	
April 12	12.8	Westl. El.
17	9.9	Ob. Konj.
23	14.9	Östl. El.
29	8.5	Unt. Konj.
Mai 3	21.1	Westl. El.
8	18.7	Ob. Konj.
14	23.2	Östl. El.
20	15.6	Unt. Konj.
25	4.1	Westl. El.
30	1.7	Ob. Konj.
Juni 5	5.7	Östl. El.
10	21.4	Unt. Konj.
15	9.7	Westl. El.
20	7.3	Ob. Konj.
26	10.6	Östl. El.
Juli 2	1.7	Unt. Konj.
6	14.1	Westl. El.
11	11.6	Ob. Konj.
17	14.2	Östl. El.

HYPERION

Datum	h	
Juli 23	5.1	Unt. Konj.
27	17.5	Westl. El.
Aug. 1	15.1	Ob. Konj.
7	17.2	Östl. El.
13	8.1	Unt. Konj.
17	20.7	Westl. El.
22	18.1	Ob. Konj.
28	20.1	Östl. El.
Sept. 3	11.0	Unt. Konj.
7	23.9	Westl. El.
12	21.4	Ob. Konj.
18	23.5	Östl. El.
24	14.3	Unt. Konj.
29	3.4	Westl. El.
Okt. 4	1.5	Ob. Konj.
10	3.7	Östl. El.
15	18.4	Unt. Konj.
20	7.7	Westl. El.
25	6.4	Ob. Konj.
31	9.1	Östl. El.
Nov. 5	23.3	Unt. Konj.
10	12.6	Westl. El.
15	12.3	Ob. Konj.
21	15.6	Östl. El.
27	5.1	Unt. Konj.

JAPETUS

Datum	h	
April 16	9.3	Ob. Konj.
Mai 5	7.9	Östl. El.
24	23.2	Unt. Konj.
Juni 14	16.5	Westl. El.
Juli 4	11.2	Ob. Konj.
23	0.8	Östl. El.
Aug. 11	7.5	Unt. Konj.
31	21.4	Westl. El.
Sept. 20	20.5	Ob. Konj.
Okt. 9	16.5	Östl. El.
29	8.1	Unt. Konj.
Nov. 19	11.1	Westl. El.

Welt-Zeit 1932		
Jan. 2	4^{h}	☉ in Erdnähe
6	6	☿ ☌ ☾
8	9	♂ ☌ ☾
8	13	♄ ☌ ☾
10	11	♀ ☌ ☾
11	3	☿ gr. westl. El. 23° 27′
11	9	♂ ☌ ♄, ♂ 0° 56′ S.
15	5	♅ ☌ ☾
17	0	♄ ☌ ☉
24	18	♃ ☌ ☾
26	1	♆ ☌ ☾
Febr. 1	6^{h}	♂ ☌ ☉
1	10	☿ im Aphel
3	11	☿ ☌ ♄, ☿ 1° 18′ S.
5	2	♄ ☌ ☾
5	7	☿ ☌ ☾
6	11	♂ ☌ ☾
7	15	♃ ☍ ☉
9	21	♀ ☌ ☾
11	14	♅ ☌ ☾
20	22	♃ ☌ ☾
21	1	☿ ☌ ♂, ☿ 1° 4′ S.
22	9	♆ ☌ ☾
26	10	♆ ☍ ☉
26	21	☿ obere ☌ ☉
27	7	♀ ☌ ♅, ♀ 0° 48′ N.
März 3	14^{h}	♄ ☌ ☾
6	15	♂ ☌ ☾
7	—	☉ ringf. Finsternis
8	5	☿ ☌ ☾
9	14	♂ im Perihel
10	0	♅ ☌ ☾
11	6	♀ ☌ ☾
16	10	☿ im Perihel
19	4	♃ ☌ ☾
20	18	♆ ☌ ☾
20	20	Frühlingsanfang
21	20	☿ ☌ ♅, ☿ 2° 54′ N.
22	—	☾ part. Finsternis
23	12	☿ gr. östl. El. 18° 40′
29	20	♀ im Perihel
31	0	♄ ☌ ☾
31	8	☿ stationär

Welt-Zeit 1932		
April 4	21^{h}	♂ ☌ ☾
6	10	♅ ☌ ☾
6	15	☿ ☌ ☾
8	17	♃ stationär
9	10	♅ ☌ ☉
10	3	☿ ☌ ♅, ☿ 3° 12′ N.
10	6	♀ ☌ ☾
10	11	☿ untere ☌ ☉
15	12	♃ ☌ ☾
17	4	♆ ☌ ☾
19	19	♀ gr. östl. El. 45° 42′
21	8	☿ ☌ ♂, ☿ 0° 15′ N.
22	20	☿ stationär
27	9	♄ ☌ ☾
29	9	☿ im Aphel
29	19	♂ ☌ ♅, ♂ 0° 10′ S.
Mai 3	14^{h}	☿ ☌ ☾
3	19	♅ ☌ ☾
4	1	♂ ☌ ☾
6	20	☿ ☌ ♅, ☿ 2° 38′ S.
8	9	☿ gr. westl. El. 26° 25′
9	17	♀ ☌ ☾
12	22	♃ ☌ ☾
14	12	♆ ☌ ☾
15	0	♄ stationär
16	16	♆ stationär
18	20	☿ ☌ ♂, ☿ 2° 28′ S.
22	23	♀ im gr. Glanze
24	17	♄ ☌ ☾
31	4	♅ ☌ ☾
Juni 2	4^{h}	♂ ☌ ☾
3	11	☿ ☌ ☾
6	22	♀ ☌ ☾
7	6	♀ stationär
9	10	♃ ☌ ☾
10	18	♆ ☌ ☾
12	9	☿ im Perihel
13	7	☿ obere ☌ ☉
21	1	♄ ☌ ☾
21	15	Sommeranfang
22	5	☿ ☌ ♀, ☿ 3° 18′ N.
27	14	♅ ☌ ☾
29	5	♀ untere ☌ ☉

Welt-Zeit 1932		h	
Juli	1	4	♂ ☌ ☾
	3	8	♀ ☌ ☾
	3	20	☉ in Erdferne
	5	17	☿ ☌ ☾
	7	1	♃ ☌ ☾
	8	1	♆ ☌ ☾
	18	8	♄ ☌ ☾
	20	8	♀ im Aphel
	20	19	☿ gr. östl. El. 26° 54′
	20	20	♀ stationär
	23	2	☿ ☌ ♃, ☿ 2° 21′ S.
	24	14	♄ ☍ ☉
	24	22	♅ ☌ ☾
	26	8	☿ im Aphel
	29	15	♅ stationär
	30	1	♂ ☌ ☾
	30	9	♀ ☌ ☾
Aug.	2	21	☿ stationär
	3	18	♃ ☌ ☾
	3	21	☿ ☌ ☾
	4	9	♆ ☌ ☾
	5	1	♀ im gr. Glanze
	7	17	☿ ☌ ♃, ☿ 5° 38′ S.
	14	12	♄ ☌ ☾
	17	14	☿ untere ☌ ☉
	21	6	♅ ☌ ☾
	26	16	☿ stationär
	26	21	♃ ☌ ☉
	27	21	♂ ☌ ☾
	28	3	♀ ☌ ☾
	30	10	☿ ☌ ☾
	31	—	☉ tot. Finsternis
	31	9	♆ ☌ ☉
	31	13	♃ ☌ ☾
	31	19	♆ ☌ ☾
Sept.	3	16	☿ gr. westl. El. 18° 4′
	7	22	♀ gr. westl. El. 45° 58′
	8	8	☿ im Perihel
	10	16	♄ ☌ ☾
	13	12	☿ ☌ ♃, ☿ 0° 46′ N.
	14	—	☾ part. Finsternis
	14	1	☿ ☌ ♆, ☿ 0° 58′ N.
	17	12	♅ ☌ ☾
	18	21	♃ ☌ ♆, ♃ 0° 9′ N.
	23	6	Herbstanfang

Welt-Zeit 1932		h	
Sept.	25	15	♂ ☌ ☾
	26	18	♀ ☌ ☾
	28	7	♆ ☌ ☾
	28	10	♃ ☌ ☾
	29	9	☿ obere ☌ ☉
	30	9	☿ ☌ ☾
Okt.	2	16	♄ stationär
	7	21	♄ ☌ ☾
	14	17	♅ ☌ ☾
	14	23	♅ ☍ ☉
	15	12	♀ ☌ ♆, ♀ 0° 13′ S.
	20	3	♀ ☌ ♃, ♀ 0° 7′ S.
	22	8	☿ im Aphel
	24	6	♂ ☌ ☾
	25	19	♆ ☌ ☾
	26	6	♃ ☌ ☾
	26	18	♀ ☌ ☾
	30	23	☿ ☌ ☾
Nov.	4	5	♄ ☌ ☾
	9	19	♀ im Perihel
	10	21	♅ ☌ ☾
	14	20	☿ gr. östl. El. 22° 36′
	21	18	♂ ☌ ☾
	22	5	♆ ☌ ☾
	22	23	♃ ☌ ☾
	24	19	☿ stationär
	25	18	♀ ☌ ☾
	28	22	☿ ☌ ☾
Dez.	1	17	♄ ☌ ☾
	4	17	☿ untere ☌ ☉
	5	7	☿ im Perihel
	5	8	♂ ☌ ♆, ♂ 1° 38′ N.
	8	2	♅ ☌ ☾
	13	2	♆ stationär
	14	11	☿ stationär
	19	12	♆ ☌ ☾
	19	22	♂ ☌ ☾
	20	11	♃ ☌ ☾
	22	1	Wintersanfang
	23	15	☿ gr. westl. El. 22° 0′
	25	13	♀ ☌ ☾
	26	0	☿ ☌ ☾
	29	5	♅ stationär
	29	9	♄ ☌ ☾

Präzession in Rektaszension (p_α) und Deklination (p_δ)

α \ δ	p_α +60°	+50°	+40°	+30°	+20°	+10°	0°	−10°	−20°	−30°	−40°	−50°	−60°	p_δ
0^h	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	3.07^s	$+20.0''$
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	− 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	−10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	−14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	−17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	−19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	−20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	−19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	−17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	−14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	−10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	− 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	ψ	log π	Π	ε
1900.0	3.07233^s	$20.0468''$	$50.2564''$	9.67309	173° 57.06′	23° 27′ 8.26″
1905.0	3.07243	20.0464	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	50.2586	9.67302	174 2.53	23 27 3.58
1915.0	3.07261	20.0456	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	50.2620	9.67293	174 10.75	23 26 56.55
1930.0	3.07289	20.0443	50.2631	9.67290	174 13.49	23 26 54.21
1935.0	3.07299	20.0438	50.2642	9.67287	174 16.23	23 26 51.87
1940.0	3.07308	20.0434	50.2653	9.67284	174 18.97	23 26 49.52

Länge λ	Präzession in Länge p_λ — Breite β: 0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°	Länge λ	Präz. in Br. p_β — Präzession p_β	Diff.
0°	50.262″	.254″	.245″	.237″	.229″	50.221″	.213″	.205″	.196″	.188″	0°	+0.048″	80
10	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	10	+0.128	77
20	.262	.255	.247	.240	.232	.225	.217	.210	.202	.195	20	+0.205	70
30	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	30	+0.275	63
40	50.262	.256	.251	.245	.239	50.233	.227	.221	.216	.210	40	+0.338	52
50	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	50	+0.390	40
60	.262	.259	.255	.252	.249	.245	.242	.238	.235	.231	60	+0.430	26
70	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	70	+0.456	14
80	50.262	.261	.261	.260	.259	50.259	.258	.258	.257	.257	80	+0.470	1
90	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	90	+0.469	16
100	.262	.264	.267	.269	.271	.273	.275	.277	.280	.282	100	+0.453	29
110	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	110	+0.424	42
120	50.262	.267	.271	.276	.281	50.286	.291	.296	.301	.306	120	+0.382	54
130	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	130	+0.328	63
140	.262	.269	.275	.282	.289	.296	.303	.310	.317	.324	140	+0.265	72
150	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	150	+0.193	77
160	50.262	.270	.278	.286	.294	50.302	.310	.318	.326	.334	160	+0.116	81
170	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	170	+0.035	83
180	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	180	−0.048	80
190	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	190	−0.128	77
200	50.262	.269	.277	.284	.292	50.299	.307	.314	.322	.329	200	−0.205	70
210	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	210	−0.275	63
220	.262	.268	.273	.279	.285	.291	.297	.303	.308	.314	220	−0.338	52
230	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	230	−0.390	40
240	50.262	.265	.269	.272	.275	50.279	.282	.286	.289	.293	240	−0.430	26
250	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	250	−0.456	14
260	.262	.263	.263	.264	.265	.265	.266	.266	.267	.267	260	−0.470	1
270	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	270	−0.469	16
280	50.262	.260	.257	.255	.253	50.251	.249	.247	.244	.242	280	−0.453	29
290	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	290	−0.424	42
300	.262	.257	.253	.248	.243	.238	.233	.228	.223	.218	300	−0.382	54
310	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	310	−0.328	63
320	50.262	.255	.249	.242	.235	50.228	.221	.214	.207	.200	320	−0.265	72
330	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	330	−0.193	77
340	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	340	−0.116	81
350	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	350	−0.035	83
360	50.262	.254	.245	.237	.229	50.221	.213	.205	.196	.188	360	+0.048	

Länge λ	Präzession in Länge p_λ, Breite β 0°	−1°	−2°	−3°	−4°	−5°	−6°	−7°	−8°	−9°	Länge λ	Präz. in Br. p_β, Präzession p_β	Diff.
0°	50.262″	.270″	.279″	.287″	.295″	50.303″	.311″	.319″	.328″	.336″	0°	+0.048″	80
10	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	10	+0.128	77
20	.262	.269	.277	.284	.292	.299	.307	.314	.322	.329	20	+0.205	70
30	.262	.269	.275	.282	.289	.295	.302	.309	.316	.322	30	+0.275	63
40	50.262	.268	.273	.279	.285	50.291	.297	.303	.308	.314	40	+0.338	52
50	.262	.267	.271	.276	.281	.285	.290	.295	.299	.304	50	+0.390	40
60	.262	.265	.269	.272	.275	.279	.282	.286	.289	.293	60	+0.430	26
70	.262	.264	.266	.268	.270	.272	.274	.276	.278	.280	70	+0.456	14
80	50.262	.263	.263	.264	.265	50.265	.266	.266	.267	.267	80	+0.470	1
90	.262	.261	.261	.260	.259	.258	.257	.256	.255	.254	90	+0.469	16
100	.262	.260	.257	.255	.253	.251	.249	.247	.244	.242	100	+0.453	29
110	.262	.258	.255	.251	.247	.244	.240	.237	.233	.230	110	+0.424	42
120	50.262	.257	.253	.248	.243	50.238	.233	.228	.223	.218	120	+0.382	54
130	.262	.256	.250	.244	.238	.232	.226	.220	.214	.208	130	+0.328	63
140	.262	.255	.249	.242	.235	.228	.221	.214	.207	.200	140	+0.265	72
150	.262	.254	.247	.239	.232	.224	.217	.209	.202	.194	150	+0.193	77
160	50.262	.254	.246	.238	.230	50.222	.214	.206	.198	.190	160	+0.116	81
170	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	170	+0.035	83
180	.262	.254	.245	.237	.229	.221	.213	.205	.196	.188	180	−0.048	80
190	.262	.254	.246	.238	.230	.222	.214	.206	.198	.190	190	−0.128	77
200	50.262	.255	.247	.240	.232	50.225	.217	.210	.202	.195	200	−0.205	70
210	.262	.255	.249	.242	.235	.229	.222	.215	.208	.202	210	−0.275	63
220	.262	.256	.251	.245	.239	.233	.227	.221	.216	.210	220	−0.338	52
230	.262	.257	.253	.248	.243	.239	.234	.229	.225	.220	230	−0.390	40
240	50.262	.259	.255	.252	.249	50.245	.242	.238	.235	.231	240	−0.430	26
250	.262	.260	.258	.256	.254	.252	.250	.248	.246	.244	250	−0.456	14
260	.262	.261	.261	.260	.259	.259	.258	.258	.257	.257	260	−0.470	1
270	.262	.263	.263	.264	.265	.266	.267	.268	.269	.270	270	−0.469	16
280	50.262	.264	.267	.269	.271	50.273	.275	.277	.280	.282	280	−0.453	29
290	.262	.266	.269	.273	.277	.280	.284	.287	.291	.294	290	−0.424	42
300	.262	.267	.271	.276	.281	.286	.291	.296	.301	.306	300	−0.382	54
310	.262	.268	.274	.280	.286	.292	.298	.304	.310	.316	310	−0.328	63
320	50.262	.269	.275	.282	.289	50.296	.303	.310	.317	.324	320	−0.265	72
330	.262	.270	.277	.285	.292	.300	.307	.315	.322	.330	330	−0.193	77
340	.262	.270	.278	.286	.294	.302	.310	.318	.326	.334	340	−0.116	81
350	.262	.270	.279	.287	.295	.303	.311	.319	.328	.336	350	−0.035	83
360	50.262	.270	.279	.287	.295	50.303	.311	.319	.328	.336	360	+0.048	

Halber Tagbogen

δ \ φ	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	4 45.4	4 38.8	4 31.8	4 24.4	4 16.5	4 8.1	3 58.9	3 48.9	3 37.9	3 25.7	3 11.8
29	4 48.6	4 42.3	4 35.6	4 28.6	4 21.1	4 13.0	4 4.3	3 54.9	3 44.5	3 33.0	3 20.1
28	4 51.7	4 45.7	4 39.3	4 32.6	4 25.5	4 17.8	4 9.6	4 0.7	3 50.9	3 40.1	3 28.0
27	4 54.7	4 49.0	4 42.9	4 36.5	4 29.8	4 22.5	4 14.7	4 6.2	3 57.0	3 46.9	3 35.5
26	4 57.7	4 52.2	4 46.5	4 40.4	4 33.9	4 27.1	4 19.7	4 11.7	4 3.0	3 53.4	3 42.8
25	5 0.6	4 55.4	4 49.9	4 44.2	4 38.0	4 31.5	4 24.5	4 16.9	4 8.7	3 59.7	3 49.7
24	5 3.5	4 58.5	4 53.3	4 47.8	4 42.0	4 35.8	4 29.2	4 22.0	4 14.3	4 5.8	3 56.5
23	5 6.3	5 1.6	4 56.6	4 51.4	4 45.9	4 40.1	4 33.8	4 27.0	4 19.7	4 11.8	4 3.0
22	5 9.0	5 4.6	4 59.9	4 55.0	4 49.7	4 44.2	4 38.3	4 31.9	4 25.0	4 17.5	4 9.3
21	5 11.7	5 7.5	5 3.1	4 58.4	4 53.5	4 48.3	4 42.7	4 36.7	4 30.2	4 23.2	4 15.4
−20	5 14.4	5 10.4	5 6.2	5 1.8	4 57.2	4 52.3	4 47.0	4 41.3	4 35.3	4 28.7	4 21.4
19	5 17.0	5 13.3	5 9.3	5 5.2	5 0.8	4 56.2	4 51.2	4 45.9	4 40.2	4 34.0	4 27.3
18	5 19.6	5 16.1	5 12.4	5 8.5	5 4.4	5 0.0	4 55.4	4 50.4	4 45.1	4 39.3	4 33.0
17	5 22.2	5 18.9	5 15.4	5 11.7	5 7.9	5 3.8	4 59.5	4 54.9	4 49.9	4 44.5	4 38.6
16	5 24.7	5 21.6	5 18.4	5 14.9	5 11.4	5 7.5	5 3.5	4 59.2	4 54.6	4 49.5	4 44.1
15	5 27.2	5 24.3	5 21.3	5 18.1	5 14.8	5 11.2	5 7.5	5 3.5	4 59.2	4 54.5	4 49.5
14	5 29.7	5 27.0	5 24.2	5 21.3	5 18.2	5 14.9	5 11.4	5 7.7	5 3.7	4 59.5	4 54.8
13	5 32.1	5 29.7	5 27.1	5 24.4	5 21.5	5 18.5	5 15.3	5 11.9	5 8.2	5 4.3	5 0.0
12	5 34.6	5 32.3	5 29.9	5 27.4	5 24.8	5 22.1	5 19.1	5 16.0	5 12.6	5 9.0	5 5.1
11	5 37.0	5 34.9	5 32.7	5 30.5	5 28.1	5 25.6	5 22.9	5 20.1	5 17.0	5 13.7	5 10.2
−10	5 39.4	5 37.5	5 35.5	5 33.5	5 31.3	5 29.1	5 26.7	5 24.1	5 21.4	5 18.4	5 15.2
9	5 41.7	5 40.1	5 38.3	5 36.5	5 34.6	5 32.5	5 30.4	5 28.1	5 25.7	5 23.0	5 20.2
8	5 44.1	5 42.6	5 41.1	5 39.5	5 37.8	5 36.0	5 34.1	5 32.1	5 29.9	5 27.6	5 25.1
7	5 46.4	5 45.2	5 43.8	5 42.4	5 41.0	5 39.4	5 37.8	5 36.0	5 34.2	5 32.2	5 30.0
6	5 48.8	5 47.7	5 46.6	5 45.4	5 44.1	5 42.8	5 41.4	5 40.0	5 38.4	5 36.7	5 34.9
5	5 51.1	5 50.2	5 49.3	5 48.3	5 47.3	5 46.2	5 45.1	5 43.9	5 42.6	5 41.2	5 39.7
4	5 53.4	5 52.7	5 52.0	5 51.2	5 50.4	5 49.6	5 48.7	5 47.8	5 46.8	5 45.7	5 44.5
3	5 55.8	5 55.2	5 54.7	5 54.1	5 53.6	5 53.0	5 52.3	5 51.6	5 50.9	5 50.1	5 49.3
2	5 58.1	5 57.7	5 57.4	5 57.1	5 56.7	5 56.3	5 55.9	5 55.5	5 55.1	5 54.6	5 54.1
− 1	6 0.4	6 0.2	6 0.1	6 0.0	5 59.8	5 59.7	5 59.5	5 59.4	5 59.2	5 59.0	5 58.9
0	6 2.7	6 2.7	6 2.8	6 2.9	6 2.9	6 3.0	6 3.1	6 3.2	6 3.4	6 3.5	6 3.6
+ 1	6 5.0	6 5.2	6 5.5	6 5.8	6 6.1	6 6.4	6 6.7	6 7.1	6 7.5	6 7.9	6 8.4
2	6 7.3	6 7.7	6 8.2	6 8.7	6 9.2	6 9.8	6 10.3	6 11.0	6 11.6	6 12.4	6 13.2
3	6 9.6	6 10.3	6 10.9	6 11.6	6 12.3	6 13.1	6 14.0	6 14.8	6 15.8	6 16.8	6 18.0
4	6 11.9	6 12.8	6 13.6	6 14.5	6 15.5	6 16.5	6 17.6	6 18.7	6 20.0	6 21.3	6 22.8
5	6 14.3	6 15.3	6 16.4	6 17.5	6 18.6	6 19.9	6 21.2	6 22.6	6 24.2	6 25.8	6 27.6
6	6 16.6	6 17.8	6 19.1	6 20.4	6 21.8	6 23.3	6 24.9	6 26.6	6 28.4	6 30.4	6 32.5
7	6 19.0	6 20.4	6 21.8	6 23.4	6 25.0	6 26.7	6 28.6	6 30.5	6 32.6	6 34.9	6 37.4
8	6 21.3	6 22.9	6 24.6	6 26.4	6 28.2	6 30.2	6 32.3	6 34.5	6 36.9	6 39.5	6 42.3
9	6 23.7	6 25.5	6 27.4	6 29.4	6 31.4	6 33.7	6 36.0	6 38.5	6 41.2	6 44.1	6 47.3
10	6 26.1	6 28.1	6 30.2	6 32.4	6 34.7	6 37.2	6 39.8	6 42.5	6 45.6	6 48.8	6 52.3
+11	6 28.5	6 30.7	6 33.0	6 35.4	6 38.0	6 40.7	6 43.6	6 46.6	6 49.9	6 53.5	6 57.4
12	6 31.0	6 33.4	6 35.9	6 38.5	6 41.3	6 44.3	6 47.4	6 50.8	6 54.4	6 58.3	7 2.5
13	6 33.4	6 36.0	6 38.8	6 41.6	6 44.7	6 47.9	6 51.3	6 54.9	6 58.9	7 3.1	7 7.8
14	6 35.9	6 38.7	6 41.7	6 44.8	6 48.0	6 51.5	6 55.2	6 59.2	7 3.4	7 8.0	7 13.1
15	6 38.4	6 41.4	6 44.6	6 47.9	6 51.5	6 55.2	6 59.2	7 3.5	7 8.1	7 13.0	7 18.5
16	6 41.0	6 44.2	6 47.6	6 51.2	6 54.9	6 58.9	7 3.2	7 7.8	7 12.7	7 18.1	7 23.9
17	6 43.5	6 47.0	6 50.6	6 54.4	6 58.5	7 2.7	7 7.3	7 12.2	7 17.5	7 23.3	7 29.5
18	6 46.1	6 49.8	6 53.7	6 57.7	7 2.0	7 6.6	7 11.5	7 16.7	7 22.4	7 28.5	7 35.3
19	6 48.8	6 52.7	6 56.8	7 1.1	7 5.7	7 10.5	7 15.7	7 21.3	7 27.4	7 33.9	7 41.1
20	6 51.5	6 55.6	6 59.9	7 4.5	7 9.4	7 14.5	7 20.1	7 26.0	7 32.4	7 39.4	7 47.1
+21	6 54.2	6 58.6	7 3.1	7 8.0	7 13.1	7 18.6	7 24.5	7 30.8	7 37.6	7 45.1	7 53.3
22	6 56.9	7 1.6	7 6.4	7 11.5	7 17.0	7 22.8	7 29.0	7 35.7	7 42.9	7 50.9	7 59.6
23	6 59.8	7 4.6	7 9.7	7 15.1	7 20.9	7 27.0	7 33.6	7 40.7	7 48.4	7 56.8	8 6.1
24	7 2.6	7 7.7	7 13.1	7 18.8	7 24.9	7 31.3	7 38.3	7 45.8	7 54.0	8 2.9	8 12.9
25	7 5.6	7 10.9	7 16.6	7 22.6	7 29.0	7 35.8	7 43.1	7 51.1	7 59.8	8 9.3	8 19.9
26	7 8.5	7 14.2	7 20.1	7 26.4	7 33.2	7 40.4	7 48.1	7 56.5	8 5.7	8 15.8	8 27.1
27	7 11.6	7 17.5	7 23.8	7 30.4	7 37.5	7 45.0	7 53.2	8 2.1	8 11.8	8 22.6	8 34.7
28	7 14.7	7 20.9	7 27.5	7 34.4	7 41.9	7 49.9	7 58.5	8 7.9	8 18.2	8 29.7	8 42.6
29	7 17.9	7 24.4	7 31.3	7 38.6	7 46.4	7 54.8	8 3.9	8 13.9	8 24.8	8 37.1	8 51.0
+30	7 21.2	7 28.0	7 35.2	7 42.9	7 51.1	7 59.9	8 9.5	8 20.1	8 31.7	8 44.8	8 59.7

δ \ φ	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9	2 13.5	1 59.3	1 42.4	1 21.1	0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	1 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.4	2 15.9	2 1.6	1 44.5
27	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6	3 1.4	2 52.4	2 42.4	2 31.3	2 18.8
25	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9	3 11.3	3 3.1	2 54.1	2 44.1	2 33.0
24	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8	3 20.8	3 13.2	3 5.0	2 56.0	2 46.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
−20	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3 45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 5.1	4 0.1	3 54.7	3 48.9
17	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0	4 12.7	4 8.1	4 3.1	3 57.8
16	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9	4 24.1	4 20.1	4 15.9	4 11.3	4 6.4
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 14.8
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
11	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
−10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 1.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
8	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9	5 16.2	5 14.4	5 12.5	5 10.6	5 8.5
7	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8	5 22.3	5 20.8	5 19.2	5 17.5	5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5 29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
− 1	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+ 1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
2	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
3	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2	6 22.0	6 22.8	6 23.6	6 24.6	6 25.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 3.3	7 5.9	7 8.6
10	6 52.3	6 54.2	6 56.1	6 58.2	7 0.3	7 2.6	7 5.0	7 7.5	7 10.2	7 13.1	7 16.2
+11	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2	7 17.2	7 20.4	7 23.8
12	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1	7 18.0	7 21.1	7 24.3	7 27.8	7 31.5
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7	7 57.4	8 2.5	8 7.9	8 13.7
18	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4	8 0.2	8 5.3	8 10.8	8 16.6	8 23.0
19	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8	8 7.9	8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.7	9 4.8
23	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	9 8.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
27	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5	9 23.5	9 34.6	9 47.3	10 1.9	10 19.5
28	8 42.6	8 49.8	8 57.5	9 5.8	9 14.8	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6	10 4.1	10 21.5	10 43.7	11 18.1
+30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7	10 5.1	10 22.3	10 44.4	11 18.5	—

Reduktionstafel

für den Auf- und Untergang der Sonne

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

Tag	Geographische Breite φ										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1932	m	m	m	m	m	m	m	m	m	m	m
Jan. 2	−62.6	−57.9	−53.0	−47.9	−42.5	−36.6	−30.4	−23.7	−16.5	−8.7	0.0
12	−58.4	−53.9	−49.4	−44.5	−39.5	−34.1	−28.3	−22.0	−15.3	−8.0	0.0
22	−52.0	−48.0	−43.9	−39.6	−35.1	−30.2	−25.0	−19.6	−13.6	−7.1	0.0
Febr. 1	−44.1	−40.8	−37.2	−33.5	−29.7	−25.6	−21.1	−16.5	−11.5	−5.9	0.0
11	−35.3	−32.6	−29.8	−26.8	−23.7	−20.4	−16.8	−13.0	− 9.1	−4.7	0.0
21	−26.0	−24.0	−21.8	−19.7	−17.4	−15.0	−12.3	− 9.5	− 6.6	−3.4	0.0
März 2	−16.4	−15.1	−13.7	−12.4	−10.9	− 9.4	− 7.7	− 5.9	− 4.1	−2.1	0.0
12	− 6.7	− 6.2	− 5.6	− 5.1	− 4.4	− 3.8	− 3.1	− 2.4	− 1.7	−0.8	0.0
22	+ 3.0	+ 2.8	+ 2.6	+ 2.4	+ 2.1	+ 1.8	+ 1.5	+ 1.2	+ 0.8	+0.4	0.0
April 1	+12.6	+11.7	+10.7	+ 9.7	+ 8.6	+ 7.3	+ 6.1	+ 4.8	+ 3.3	+1.7	0.0
11	+22.3	+20.6	+18.9	+17.0	+15.0	+12.8	+10.6	+ 8.4	+ 5.7	+3.0	0.0
21	+31.8	+29.3	+26.8	+24.2	+21.3	+18.3	+15.2	+11.9	+ 8.2	+4.3	0.0
Mai 1	+40.9	+37.8	+34.5	+31.2	+27.6	+23.7	+19.8	+15.3	+10.7	+5.6	0.0
11	+49.5	+45.7	+41.8	+37.8	+33.5	+28.8	+24.0	+18.6	+13.0	+6.8	0.0
21	+57.0	+52.9	+48.4	+43.6	+38.8	+33.4	+27.8	+21.7	+15.1	+7.8	0.0
31	+63.1	+58.6	+53.7	+48.5	+43.1	+37.1	+30.9	+24.2	+16.9	+8.8	0.0
Juni 10	+67.2	+62.3	+57.2	+51.7	+45.9	+39.7	+33.1	+26.0	+18.0	+9.5	0.0
20	+68.8	+63.8	+58.6	+52.9	+47.0	+40.7	+33.9	+26.6	+18.5	+9.8	0.0
30	+67.8	+62.8	+57.7	+52.1	+46.3	+40.0	+33.3	+26.2	+18.2	+9.6	0.0
Juli 10	+64.3	+59.5	+54.6	+49.3	+43.9	+37.9	+31.5	+24.7	+17.1	+9.1	0.0
20	+58.6	+54.2	+49.8	+44.9	+39.9	+34.4	+28.6	+22.4	+15.5	+8.2	0.0
30	+51.4	+47.5	+43.6	+39.2	+34.9	+30.0	+24.9	+19.5	+13.5	+7.1	0.0
Aug. 9	+43.1	+39.9	+36.5	+32.8	+29.1	+25.1	+20.8	+16.3	+11.3	+5.8	0.0
19	+34.2	+31.6	+28.9	+26.0	+23.0	+19.9	+16.5	+12.7	+ 8.9	+4.6	0.0
29	+24.9	+23.0	+21.1	+19.0	+16.7	+14.5	+12.0	+ 9.2	+ 6.5	+3.3	0.0
Sept. 8	+15.5	+14.2	+13.0	+11.8	+10.4	+ 9.0	+ 7.4	+ 5.7	+ 4.0	+2.0	0.0
18	+ 6.0	+ 5.4	+ 4.9	+ 4.5	+ 4.0	+ 3.5	+ 2.8	+ 2.2	+ 1.6	+0.8	0.0
28	− 3.7	− 3.4	− 3.0	− 2.7	− 2.4	− 2.0	− 1.7	− 1.3	− 0.9	−0.5	0.0
Okt. 8	−13.3	−12.2	−11.1	−10.0	− 8.8	− 7.5	− 6.2	− 4.9	− 3.3	−1.7	0.0
18	−22.8	−21.0	−19.1	−17.2	−15.2	−13.0	−10.7	− 8.4	− 5.7	−3.0	0.0
28	−32.1	−29.6	−27.0	−24.3	−21.5	−18.4	−15.2	−11.9	− 8.2	−4.3	0.0
Nov. 7	−41.0	−37.9	−34.6	−31.2	−27.6	−23.6	−19.6	−15.2	−10.5	−5.6	0.0
17	−49.2	−45.5	−41.6	−37.6	−33.1	−28.5	−23.7	−18.4	−12.8	−6.7	0.0
27	−56.2	−51.9	−47.5	−42.9	−38.0	−32.7	−27.2	−21.2	−14.8	−7.7	0.0
Dez. 7	−61.3	−56.7	−51.9	−46.8	−41.5	−35.8	−29.8	−23.3	−16.1	−8.5	0.0
17	−64.0	−59.2	−54.2	−48.9	−43.3	−37.4	−31.1	−24.3	−16.9	−8.9	0.0
27	−63.8	−59.0	−54.0	−48.9	−43.3	−37.4	−31.1	−24.3	−16.9	−8.9	0.0
37	−60.9	−56.3	−51.5	−46.6	−41.3	−35.6	−29.6	−23.1	−16.0	−8.4	0.0

Reduktionstafel

für den Auf- und Untergang der Sonne

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

Tag	Geographische Breite φ										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1932	m	m	m	m	m	m	m	m	m	m	m
Jan. 2	0.0	+4.7	+9.6	+14.8	+20.4	+26.3	+32.7	+39.5	+46.9	+55.0	+63.7
12	0.0	+4.4	+8.9	+13.7	+18.7	+24.3	+30.1	+36.2	+42.9	+50.1	+58.0
22	0.0	+3.8	+7.8	+12.0	+16.5	+21.2	+26.2	+31.6	+37.2	+43.4	+50.0
Febr. 1	0.0	+3.2	+6.5	+10.0	+13.7	+17.6	+21.8	+26.2	+30.8	+35.9	+41.2
11	0.0	+2.5	+5.1	+7.9	+10.8	+13.9	+17.1	+20.5	+24.1	+28.0	+32.1
21	0.0	+1.8	+3.7	+5.7	+7.8	+10.0	+12.4	+14.8	+17.4	+20.2	+23.0
März 2	0.0	+1.2	+2.3	+3.6	+4.9	+6.2	+7.7	+9.2	+10.8	+12.5	+14.1
12	0.0	+0.5	+0.9	+1.4	+2.0	+2.5	+3.1	+3.7	+4.2	+5.0	+5.6
22	0.0	−0.2	−0.5	−0.7	−0.9	−1.3	−1.6	−1.8	−2.2	−2.5	−3.0
April 1	0.0	−0.9	−1.9	−2.8	−3.9	−5.0	−6.2	−7.4	−8.7	−10.1	−11.5
11	0.0	−1.5	−3.3	−5.0	−6.9	−8.8	−10.8	−13.0	−15.3	−17.7	−20.3
21	0.0	−2.2	−4.7	−7.2	−9.9	−12.7	−15.6	−18.8	−22.1	−25.5	−29.4
Mai 1	0.0	−3.0	−6.2	−9.4	−12.9	−16.6	−20.4	−24.6	−28.9	−33.6	−38.6
11	0.0	−3.6	−7.5	−11.5	−15.8	−20.4	−25.1	−30.3	−35.9	−41.8	−48.1
21	0.0	−4.2	−8.8	−13.5	−18.5	−23.9	−29.7	−35.9	−42.6	−49.7	−57.6
31	0.0	−4.7	−9.8	−15.3	−20.9	−27.1	−33.7	−40.8	−48.4	−56.8	−66.0
Juni 10	0.0	−5.1	−10.6	−16.4	−22.7	−29.3	−36.4	−44.2	−52.6	−62.0	−72.4
20	0.0	−5.3	−10.9	−16.9	−23.3	−30.2	−37.5	−45.6	−54.4	−64.0	−75.1
30	0.0	−5.2	−10.7	−16.6	−22.9	−29.5	−36.8	−44.7	−53.3	−62.7	−73.4
Juli 10	0.0	−4.9	−10.1	−15.5	−21.4	−27.7	−34.4	−41.6	−49.5	−58.3	−67.7
20	0.0	−4.4	−9.1	−13.9	−19.2	−24.8	−30.7	−37.1	−44.0	−51.5	−59.7
30	0.0	−3.8	−7.8	−12.0	−16.5	−21.2	−26.3	−31.8	−37.5	−43.8	−50.5
Aug. 9	0.0	−3.2	−6.4	−9.9	−13.7	−17.5	−21.7	−26.0	−30.7	−35.6	−41.0
19	0.0	−2.5	−5.0	−7.7	−10.7	−13.6	−16.9	−20.2	−23.9	−27.7	−31.8
29	0.0	−1.8	−3.6	−5.6	−7.7	−9.8	−12.1	−14.6	−17.1	−19.9	−22.7
Sept. 8	0.0	−1.2	−2.2	−3.5	−4.8	−6.0	−7.5	−9.0	−10.5	−12.3	−14.0
18	0.0	−0.5	−0.8	−1.4	−1.9	−2.3	−2.9	−3.5	−4.1	−4.8	−5.4
28	0.0	+0.2	+0.6	+0.7	+1.0	+1.4	+1.6	+1.9	+2.3	+2.6	+3.0
Okt. 8	0.0	+0.9	+1.9	+2.9	+3.9	+5.1	+6.2	+7.3	+8.7	+10.0	+11.4
18	0.0	+1.6	+3.3	+5.0	+6.8	+8.8	+10.7	+12.8	+15.2	+17.5	+20.1
28	0.0	+2.2	+4.7	+7.1	+9.7	+12.6	+15.4	+18.4	+21.8	+25.1	+28.9
Nov. 7	0.0	+2.9	+6.1	+9.2	+12.7	+16.3	+20.1	+24.0	+28.4	+32.9	+38.0
17	0.0	+3.6	+7.4	+11.3	+15.5	+19.9	+24.6	+29.6	+35.0	+40.6	+46.9
27	0.0	+4.1	+8.4	+13.2	+18.0	+23.1	+28.7	+34.6	+40.9	+47.8	+55.2
Dez. 7	0.0	+4.6	+9.3	+14.5	+19.9	+25.7	+31.9	+38.4	+45.7	+53.4	+61.8
17	0.0	+4.8	+9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.3	+56.5	+65.7
27	0.0	+4.8	+9.8	+15.2	+20.9	+27.0	+33.5	+40.5	+48.1	+56.3	+65.5
37	0.0	+4.6	+9.3	+14.3	+19.7	+25.5	+31.7	+38.2	+45.2	+53.0	+61.4

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

t*)	Geographische Breite φ										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	−94.6	−87.9	−80.9	−73.4	−65.5	−56.9	−47.6	−37.5	−26.4	−14.0	0.0
3 30	−88.5	−82.2	−75.6	−68.5	−61.0	−52.9	−44.2	−34.8	−24.4	−12.9	0.0
3 40	−82.5	−76.5	−70.3	−63.7	−56.6	−49.1	−41.0	−32.2	−22.5	−11.9	0.0
3 50	−76.6	−71.0	−65.2	−59.0	−52.4	−45.3	−37.8	−29.6	−20.7	−10.9	0.0
4 0	−70.8	−65.6	−60.1	−54.4	−48.2	−41.7	−34.7	−27.2	−18.9	− 9.9	0.0
4 10	−65.1	−60.3	−55.2	−49.9	−44.2	−38.2	−31.7	−24.8	−17.3	− 9.0	0.0
4 20	−59.5	−55.0	−50.3	−45.5	−40.3	−34.8	−28.9	−22.5	−15.7	− 8.2	0.0
4 30	−54.0	−49.9	−45.6	−41.2	−36.5	−31.4	−26.1	−20.4	−14.1	− 7.4	0.0
4 40	−48.4	−44.8	−40.9	−36.9	−32.7	−28.2	−23.3	−18.2	−12.6	− 6.6	0.0
4 50	−43.0	−39.8	−36.4	−32.7	−29.0	−24.9	−20.7	−16.1	−11.2	− 5.8	0.0
5 0	−37.7	−34.8	−31.8	−28.6	−25.3	−21.8	−18.1	−14.1	− 9.8	− 5.0	0.0
5 10	−32.4	−29.9	−27.3	−24.6	−21.7	−18.7	−15.5	−12.1	− 8.4	− 4.3	0.0
5 20	−27.1	−25.0	−22.8	−20.6	−18.2	−15.6	−12.9	−10.1	− 7.0	− 3.6	0.0
5 30	−21.9	−20.2	−18.4	−16.6	−14.7	−12.6	−10.4	− 8.1	− 5.6	− 2.9	0.0
5 40	−16.7	−15.4	−14.0	−12.6	−11.2	− 9.6	− 7.9	− 6.2	− 4.3	− 2.2	0.0
5 50	−11.5	−10.6	− 9.7	− 8.7	− 7.7	− 6.6	− 5.5	− 4.2	− 2.9	− 1.5	0.0
6 0	− 6.4	− 5.8	− 5.4	− 4.8	− 4.2	− 3.6	− 3.0	− 2.3	− 1.6	− 0.9	0.0
6 10	− 1.2	− 1.1	− 1.0	− 0.9	− 0.8	− 0.7	− 0.6	− 0.4	− 0.3	− 0.2	0.0
6 20	+ 4.0	+ 3.7	+ 3.4	+ 3.0	+ 2.6	+ 2.3	+ 1.9	+ 1.5	+ 1.0	+ 0.5	0.0
6 30	+ 9.1	+ 8.4	+ 7.7	+ 6.9	+ 6.1	+ 5.3	+ 4.4	+ 3.4	+ 2.4	+ 1.2	0.0
6 40	+14.3	+13.2	+12.0	+10.8	+ 9.6	+ 8.2	+ 6.8	+ 5.3	+ 3.7	+ 1.9	0.0
6 50	+19.5	+18.0	+16.4	+14.8	+13.1	+11.2	+ 9.3	+ 7.2	+ 5.0	+ 2.6	0.0
7 0	+24.7	+22.8	+20.9	+18.8	+16.6	+14.2	+11.8	+ 9.1	+ 6.3	+ 3.3	0.0
7 10	+30.0	+27.7	+25.3	+22.8	+20.1	+17.3	+14.3	+11.1	+ 7.7	+ 4.0	0.0
7 20	+35.3	+32.6	+29.7	+26.8	+23.7	+20.3	+16.8	+13.1	+ 9.1	+ 4.7	0.0
7 30	+40.6	+37.5	+34.3	+30.9	+27.3	+23.4	+19.4	+15.1	+10.5	+ 5.5	0.0
7 40	+45.9	+42.5	+38.9	+35.0	+31.0	+26.6	+22.1	+17.2	+12.0	+ 6.2	0.0
7 50	+51.4	+47.6	+43.5	+39.2	+34.7	+29.9	+24.8	+19.3	+13.5	+ 7.0	0.0
8 0	+56.9	+52.7	+48.2	+43.5	+38.5	+33.2	+27.6	+21.5	+15.0	+ 7.8	0.0
8 10	+62.5	+57.9	+53.0	+47.9	+42.4	+36.6	+30.4	+23.8	+16.6	+ 8.6	0.0
8 20	+68.2	+63.2	+57.9	+52.3	+46.4	+40.1	+33.3	+26.1	+18.2	+ 9.5	0.0
8 30	+74.0	+68.5	+62.9	+56.9	+50.5	+43.7	+36.4	+28.5	+19.8	+10.5	0.0
8 40	+79.8	+74.0	+67.9	+61.5	+54.7	+47.3	+39.5	+30.9	+21.6	+11.4	0.0
8 50	+85.8	+79.6	+73.1	+66.3	+59.0	+51.1	+42.7	+33.5	+23.5	+12.5	0.0
9 0	+91.9	+85.3	+78.4	+71.2	+63.4	+55.0	+46.0	+36.3	+25.5	+13.5	0.0

*) t ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Reduktionstafel

für Auf- und Untergang des Mondes

Das Vorzeichen der Tafel gilt für den Aufgang, das entgegengesetzte Vorzeichen für den Untergang

t*)	Geographische Breite φ										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	0.0	+7.7	+16.1	+25.2	+35.1	+46.1	+58.4	+72.5	+89.1	+109.7	+138.1
3 30	0.0	+7.1	+14.7	+22.9	+31.8	+41.6	+52.4	+64.5	+78.3	+94.5	+114.3
3 40	0.0	+6.5	+13.4	+20.9	+28.9	+37.6	+47.2	+57.7	+69.4	+82.7	+98.2
3 50	0.0	+5.9	+12.2	+19.0	+26.2	+34.0	+42.5	+51.7	+61.9	+73.3	+86.1
4 0	0.0	+5.4	+11.1	+17.2	+23.7	+30.8	+38.2	+46.3	+55.2	+65.0	+76.0
4 10	0.0	+4.9	+10.1	+15.6	+21.4	+27.7	+34.4	+41.6	+49.4	+57.9	+67.3
4 20	0.0	+4.5	+9.1	+14.0	+19.2	+24.8	+30.8	+37.2	+44.0	+51.5	+59.6
4 30	0.0	+4.0	+8.1	+12.5	+17.2	+22.2	+27.5	+33.1	+39.1	+45.7	+52.7
4 40	0.0	+3.5	+7.3	+11.2	+15.3	+19.7	+24.3	+29.3	+34.5	+40.2	+46.3
4 50	0.0	+3.1	+6.4	+9.8	+13.4	+17.3	+21.4	+25.6	+30.2	+35.1	+40.4
5 0	0.0	+2.7	+5.5	+8.5	+11.6	+15.0	+18.5	+22.2	+26.1	+30.3	+34.8
5 10	0.0	+2.3	+4.7	+7.2	+10.0	+12.8	+15.7	+18.9	+22.2	+25.7	+29.5
5 20	0.0	+2.0	+3.9	+6.0	+8.3	+10.7	+13.1	+15.7	+18.4	+21.3	+24.4
5 30	0.0	+1.6	+3.2	+4.8	+6.7	+8.5	+10.5	+12.6	+14.8	+17.1	+19.6
5 40	0.0	+1.2	+2.4	+3.7	+5.0	+6.5	+7.9	+9.5	+11.2	+13.0	+14.8
5 50	0.0	+0.8	+1.7	+2.6	+3.4	+4.4	+5.5	+6.5	+7.7	+8.9	+10.2
6 0	0.0	+0.5	+0.9	+1.4	+1.9	+2.4	+3.0	+3.6	+4.2	+4.9	+5.6
6 10	0.0	+0.1	+0.2	+0.2	+0.4	+0.5	+0.6	+0.7	+0.8	+0.9	+1.1
6 20	0.0	−0.3	−0.6	−0.9	−1.2	−1.5	−1.9	−2.3	−2.6	−3.0	−3.5
6 30	0.0	−0.6	−1.3	−2.0	−2.7	−3.5	−4.3	−5.2	−6.0	−7.0	−8.0
6 40	0.0	−1.0	−2.1	−3.1	−4.3	−5.5	−6.8	−8.1	−9.5	−11.0	−12.6
6 50	0.0	−1.3	−2.9	−4.3	−5.9	−7.5	−9.4	−11.2	−13.1	−15.1	−17.3
7 0	0.0	−1.7	−3.6	−5.5	−7.5	−9.6	−11.9	−14.2	−16.7	−19.3	−22.2
7 10	0.0	−2.1	−4.4	−6.7	−9.2	−11.7	−14.5	−17.4	−20.4	−23.7	−27.1
7 20	0.0	−2.5	−5.1	−7.9	−10.8	−13.8	−17.1	−20.6	−24.2	−28.1	−32.3
7 30	0.0	−2.9	−6.0	−9.2	−12.6	−16.1	−19.9	−24.0	−28.2	−32.8	−37.7
7 40	0.0	−3.3	−6.9	−10.6	−14.4	−18.5	−22.9	−27.5	−32.4	−37.8	−43.4
7 50	0.0	−3.8	−7.7	−12.0	−16.3	−21.0	−25.9	−31.3	−36.9	−43.0	−49.6
8 0	0.0	−4.2	−8.7	−13.4	−18.3	−23.7	−29.2	−35.3	−41.7	−48.7	−56.3
8 10	0.0	−4.7	−9.6	−14.9	−20.4	−26.4	−32.6	−39.5	−46.8	−54.8	−63.5
8 20	0.0	−5.2	−10.6	−16.4	−22.6	−29.2	−36.3	−44.0	−52.3	−61.5	−71.6
8 30	0.0	−5.7	−11.7	−18.1	−25.0	−32.4	−40.4	−49.1	−58.6	−69.1	−81.0
8 40	0.0	−6.3	−12.9	−19.9	−27.6	−35.8	−44.9	−54.9	−65.7	−77.9	−92.1
8 50	0.0	−6.8	−14.1	−21.9	−30.5	−39.7	−49.8	−61.2	−73.8	−88.5	−106.1
9 0	0.0	−7.4	−15.4	−24.1	−33.7	−44.1	−55.3	−68.4	−83.6	−101.4	−125.9

*) t ist beim Aufgange der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergange der Zeitunterschied zwischen Kulmination und Untergang

Julianische Periode

I. Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Julianische Periode

I. Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	21	21	22	22	23	23	23	24	24

[1]) Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage

Ia. Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0[2])	31[2])	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern

[2]) In den Jahren 1700, 1800, 1900 um 1 zu vergrößern

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats, 12h Welt-Zeit, verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400	410	441	470	501	531	562	592	623	654	684	715	745
1861		776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401	141	172	200	231	261	292	322	353	384	414	445	475
1863		506	537	565	596	626	657	687	718	749	779	810	840
1864		871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402	237	268	296	327	357	388	418	449	480	510	541	571
1866		602	633	661	692	722	753	783	814	845	875	906	936
1867		967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403	332	363	392	423	453	484	514	545	576	606	637	667
1869		698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404	063	094	122	153	183	214	244	275	306	336	367	397
1871		428	459	487	518	548	579	609	640	671	701	732	762
1872		793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405	159	190	218	249	279	310	340	371	402	432	463	493
1874		524	555	583	614	644	675	705	736	767	797	828	858
1875		889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406	254	285	314	345	375	406	436	467	498	528	559	589
1877		620	651	679	710	740	771	801	832	863	893	924	954
1878		985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407	350	381	409	440	470	501	531	562	593	623	654	684
1880		715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408	081	112	140	171	201	232	262	293	324	354	385	415
1882		446	477	505	536	566	597	627	658	689	719	750	780
1883		811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409	176	207	236	267	297	328	358	389	420	450	481	511
1885		542	573	601	632	662	693	723	754	785	815	846	876
1886		907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410	272	303	331	362	392	423	453	484	515	545	576	606
1888		637	668	697	728	758	789	819	850	881	911	942	972
1889	2411	003	034	062	093	123	154	184	215	246	276	307	337
1890		368	399	427	458	488	519	549	580	611	641	672	702
1891		733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412	098	129	158	189	219	250	280	311	342	372	403	433
1893		464	495	523	554	584	615	645	676	707	737	768	798
1894		829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413	194	225	253	284	314	345	375	406	437	467	498	528
1896		559	590	619	650	680	711	741	772	803	833	864	894
1897		925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414	290	321	349	380	410	441	471	502	533	563	594	624
1899		655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode

II. Anzahl der seit Beginn der Periode am 0. jedes Monats, 12h Welt-Zeit, verflossenen Tage

Jahr n. Chr.	Januar 0		Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1900	2415	020	051	079	110	140	171	201	232	263	293	324	354
1901		385	416	444	475	505	536	566	597	628	658	689	719
1902		750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416	115	146	174	205	235	266	296	327	358	388	419	449
1904		480	511	540	571	601	632	662	693	724	754	785	815
1905		846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417	211	242	270	301	331	362	392	423	454	484	515	545
1907		576	607	635	666	696	727	757	788	819	849	880	910
1908		941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418	307	338	366	397	427	458	488	519	550	580	611	641
1910		672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419	037	068	096	127	157	188	218	249	280	310	341	371
1912		402	433	462	493	523	554	584	615	646	676	707	737
1913		768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420	133	164	192	223	253	284	314	345	376	406	437	467
1915		498	529	557	588	618	649	679	710	741	771	802	832
1916		863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421	229	260	288	319	349	380	410	441	472	502	533	563
1918		594	625	653	684	714	745	775	806	837	867	898	928
1919		959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422	324	355	384	415	445	476	506	537	568	598	629	659
1921		690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423	055	086	114	145	175	206	236	267	298	328	359	389
1923		420	451	479	510	540	571	601	632	663	693	724	754
1924		785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424	151	182	210	241	271	302	332	363	394	424	455	485
1926		516	547	575	606	636	667	697	728	759	789	820	850
1927		881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425	246	277	306	337	367	398	428	459	490	520	551	581
1929		612	643	671	702	732	763	793	824	855	885	916	946
1930		977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426	342	373	401	432	462	493	523	554	585	615	646	676
1932		707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427	073	104	132	163	193	224	254	285	316	346	377	407
1934		438	469	497	528	558	589	619	650	681	711	742	772
1935		803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428	168	199	228	259	289	320	350	381	412	442	473	503
1937		534	565	593	624	654	685	715	746	777	807	838	868
1938		899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429	264	295	323	354	384	415	445	476	507	537	568	598

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50	3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52	3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53	3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58	3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59	3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60	3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61	3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66	4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67	4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68	4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69	4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70	4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71	4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72	4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73	4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74	4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75	4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76	4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77	4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78	4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79	4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80	4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81	4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82	4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83	5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85	5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86	5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87	5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88	5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89	5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90	5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91	5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92	5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93	5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94	5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95	5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96	5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97	5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98	5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99	6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00	6 5
51	5 10 27	11 15 42	17 20 56	23 26 11				
52	5 16 33	11 21 47	17 27 2	23 32 16				
53	5 22 38	11 27 52	17 33 7	23 38 21				
54	5 28 43	11 33 58	17 39 12	23 44 27				
55	5 34 48	11 40 3	17 45 17	23 50 32				
56	5 40 54	11 46 8	17 51 23	23 56 37				
57	5 46 59	11 52 13	17 57 28	24 2 42				
58	5 53 4	11 58 19	18 3 33	24 8 48				
59	5 59 9	12 4 24	18 9 38	24 14 53				

Die Reduktion ist zur mittl. Zeit zu addieren

Red.	0m	1m	2m	3m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50	3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51	3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52	3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53	3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54	3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55	3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56	3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57	3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58	3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Reduktion ist von der Sternzeit zu subtrahieren

	0^h	1^h	2^h	3^h	4^h	5^h		
m	d	d	d	d	d	d	s	d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
1	.000694	.042361	.084028	.125694	.167361	.209028	1	.000012
2	.001389	.043056	.084722	.126389	.168056	.209722	2	.000023
3	.002083	.043750	.085417	.127083	.168750	.210417	3	.000035
4	.002778	.044444	.086111	.127778	.169444	.211111	4	.000046
5	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	5	0.000058
6	.004167	.045833	.087500	.129167	.170833	.212500	6	.000069
7	.004861	.046528	.088194	.129861	.171528	.213194	7	.000081
8	.005556	.047222	.088889	.130556	.172222	.213889	8	.000093
9	.006250	.047917	.089583	.131250	.172917	.214583	9	.000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	10	0.000116
11	.007639	.049306	.090972	.132639	.174306	.215972	11	.000127
12	.008333	.050000	.091667	.133333	.175000	.216667	12	.000139
13	.009028	.050694	.092361	.134028	.175694	.217361	13	.000150
14	.009722	.051389	.093056	.134722	.176389	.218056	14	.000162
15	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15	0.000174
16	.011111	.052778	.094444	.136111	.177778	.219444	16	.000185
17	.011806	.053472	.095139	.136806	.178472	.220139	17	.000197
18	.012500	.054167	.095833	.137500	.179167	.220833	18	.000208
19	.013194	.054861	.096528	.138194	.179861	.221528	19	.000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	.014583	.056250	.097917	.139583	.181250	.222917	21	.000243
22	.015278	.056944	.098611	.140278	.181944	.223611	22	.000255
23	.015972	.057639	.099306	.140972	.182639	.224306	23	.000266
24	.016667	.058333	.100000	.141667	.183333	.225000	24	.000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	.018056	.059722	.101389	.143056	.184722	.226389	26	.000301
27	.018750	.060417	.102083	.143750	.185417	.227083	27	.000313
28	.019444	.061111	.102778	.144444	.186111	.227778	28	.000324
29	.020139	.061806	.103472	.145139	.186806	.228472	29	.000336
30	0.020833	0.062500	0.104167	0.145833	0.187500	0.229167	30	0.000347
31	.021528	.063194	.104861	.146528	.188194	.229861	31	.000359
32	.022222	.063889	.105556	.147222	.188889	.230556	32	.000370
33	.022917	.064583	.106250	.147917	.189583	.231250	33	.000382
34	.023611	.065278	.106944	.148611	.190278	.231944	34	.000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	.025000	.066667	.108333	.150000	.191667	.233333	36	.000417
37	.025694	.067361	.109028	.150694	.192361	.234028	37	.000428
38	.026389	.068056	.109722	.151389	.193056	.234722	38	.000440
39	.027083	.068750	.110417	.152083	.193750	.235417	39	.000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	.028472	.070139	.111806	.153472	.195139	.236806	41	.000475
42	.029167	.070833	.112500	.154167	.195833	.237500	42	.000486
43	.029861	.071528	.113194	.154861	.196528	.238194	43	.000498
44	.030556	.072222	.113889	.155556	.197222	.238889	44	.000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	.031944	.073611	.115278	.156944	.198611	.240278	46	.000532
47	.032639	.074306	.115972	.157639	.199306	.240972	47	.000544
48	.033333	.075000	.116667	.158333	.200000	.241667	48	.000556
49	.034028	.075694	.117361	.159028	.200694	.242361	49	.000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	.035417	.077083	.118750	.160417	.202083	.243750	51	.000590
52	.036111	.077778	.119444	.161111	.202778	.244444	52	.000602
53	.036806	.078472	.120139	.161806	.203472	.245139	53	.000613
54	.037500	.079167	.120833	.162500	.204167	.245833	54	.000625
55	0.038194	0.079861	0.121528	0.163194	0.204861	0.246528	55	0.000637
56	.038889	.080556	.122222	.163889	.205556	.247222	56	.000648
57	.039583	.081250	.122917	.164583	.206250	.247917	57	.000660
58	.040278	.081944	.123611	.165278	.206944	.248611	58	.000671
59	.040972	.082639	.124306	.165972	.207639	.249306	59	.000683

m	6^h d	7^h d	8^h d	9^h d	10^h d	11^h d	s	d
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000
1	.250694	.292361	.334028	.375694	.417361	.459028	1	.000012
2	.251389	.293056	.334722	.376389	.418056	.459722	2	.000023
3	.252083	.293750	.335417	.377083	.418750	.460417	3	.000035
4	.252778	.294444	.336111	.377778	.419444	.461111	4	.000046
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058
6	.254167	.295833	.337500	.379167	.420833	.462500	6	.000069
7	.254861	.296528	.338194	.379861	.421528	.463194	7	.000081
8	.255556	.297222	.338889	.380556	.422222	.463889	8	.000093
9	.256250	.297917	.339583	.381250	.422917	.464583	9	.000104
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116
11	.257639	.299306	.340972	.382639	.424306	.465972	11	.000127
12	.258333	.300000	.341667	.383333	.425000	.466667	12	.000139
13	.259028	.300694	.342361	.384028	.425694	.467361	13	.000150
14	.259722	.301389	.343056	.384722	.426389	.468056	14	.000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	.261111	.302778	.344444	.386111	.427778	.469444	16	.000185
17	.261806	.303472	.345139	.386806	.428472	.470139	17	.000197
18	.262500	.304167	.345833	.387500	.429167	.470833	18	.000208
19	.263194	.304861	.346528	.388194	.429861	.471528	19	.000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
21	.264583	.306250	.347917	.389583	.431250	.472917	21	.000243
22	.265278	.306944	.348611	.390278	.431944	.473611	22	.000255
23	.265972	.307639	.349306	.390972	.432639	.474306	23	.000266
24	.266667	.308333	.350000	.391667	.433333	.475000	24	.000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	.268056	.309722	.351389	.393056	.434722	.476389	26	.000301
27	.268750	.310417	.352083	.393750	.435417	.477083	27	.000313
28	.269444	.311111	.352778	.394444	.436111	.477778	28	.000324
29	.270139	.311806	.353472	.395139	.436806	.478472	29	.000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0 479167	30	0.000347
31	.271528	.313194	.354861	.396528	.438194	.479861	31	.000359
32	.272222	.313889	.355556	.397222	.438889	.480556	32	.000370
33	.272917	.314583	.356250	.397917	.439583	.481250	33	.000382
34	.273611	.315278	.356944	.398611	.440278	.481944	34	.000394
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405
36	.275000	.316667	.358333	.400000	.441667	.483333	36	.000417
37	.275694	.317361	.359028	.400694	.442361	.484028	37	.000428
38	.276389	.318056	.359722	.401389	.443056	.484722	38	.000440
39	.277083	.318750	.360417	.402083	.443750	.485417	39	.000451
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463
41	.278472	.320139	.361806	.403472	.445139	.486806	41	.000475
42	.279167	.320833	.362500	.404167	.445833	.487500	42	.000486
43	.279861	.321528	.363194	.404861	.446528	.488194	43	.000498
44	.280556	.322222	.363889	.405556	.447222	.488889	44	.000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	.281944	.323611	.365278	.406944	.448611	.490278	46	.000532
47	.282639	.324306	.365972	.407639	.449306	.490972	47	.000544
48	.283333	.325000	.366667	.408333	.450000	.491667	48	.000556
49	.284028	.325694	.367361	.409028	.450694	.492361	49	.000567
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579
51	.285417	.327083	.368750	.410417	.452083	.493750	51	.000590
52	.286111	.327778	.369444	.411111	.452778	.494444	52	.000602
53	.286806	.328472	.370139	.411806	.453472	.495139	53	.000613
54	.287500	.329167	.370833	.412500	.454167	.495833	54	.000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	.288889	.330556	.372222	.413889	.455556	.497222	56	.000648
57	.289583	.331250	.372917	.414583	.456250	.497917	57	.000660
58	.290278	.331944	.373611	.415278	.456944	.498611	58	.000671
59	.290972	.332639	.374306	.415972	.457639	.499306	59	.000683

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ-☊	Δλ	a	B	λ-☊	λ-☊	Δλ	a	B	λ-☊
0°	+0.0'+	−0.0269+	−0° 0.0'+	180°	45°	+0.6'+	−0.0190+	−1° 5.3'+	225°
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	−0.0268+	−0 8.0+	185	50	+0.6+	−0.0173+	−1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	−0.0264+	−0 16.0+	190	55	+0.6+	−0.0154+	−1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.5	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	−0.0259+	−0 23.9+	195	60	+0.5+	−0.0134+	−1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	−0.0252+	−0 31.6+	200	65	+0.5+	−0.0114+	−1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	1 26.2	249
25	+0.5+	−0.0243+	−0 39.0+	205	70	+0.4+	−0.0092+	−1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	−0.0233+	−0 46.2+	210	75	+0.3+	−0.0070+	−1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	−0.0220+	−0 53.0+	215	80	+0.2+	−0.0047+	−1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	−0.0206+	−0 59.4+	220	85	+0.1+	−0.0023+	−1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	09	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	05	1 32.3	269
45	+0.6+	−0.0190+	−1 5.3+	225	90	+0.0+	−0.0000+	−1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ-☊	Δλ	a	B	λ-☊	λ-☊	Δλ	a	B	λ-☊
°	'		° '	°	°	'		° '	°
90	—0.0—	+0.0000—	—1 32.3+	270	135	—0.6—	+0.0190—	—1 5.3+	315
91	0.0	05	1 32.3	271	136	0.6	193	1 4.1	316
92	0.0	09	1 32.3	272	137	0.6	196	1 3.0	317
93	0.1	14	1 32.2	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0.6	319
95	—0.1—	+0.0023—	—1 32.0+	275	140	—0.6—	+0.0206—	—0 59.4+	320
96	0.1	28	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	—0.2—	+0.0047—	—1 30.9+	280	145	—0.6—	+0.0220—	—0 53.0+	325
101	0.2	51	1 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
105	—0.3—	+0.0070—	—1 29.2+	285	150	—0.5—	+0.0233—	—0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.3	289	154	0.5	241	0 40.5	334
110	—0.4—	+0.0092—	—1 26.8+	290	155	—0.5—	+0.0243—	—0 39.0+	335
111	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	1 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	1 24.4	294	159	0.4	251	0 33.1	339
115	—0.5—	+0.0114—	—1 23.7+	295	160	—0.4—	+0.0252—	—0 31.6+	340
116	0.5	118	1 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	—0.5—	+0.0134—	—1 20.0+	300	165	—0.3—	+0.0259—	—0 23.9+	345
121	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	1 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.5	304	169	0.2	264	0 17.6	349
125	—0.6—	+0.0154—	—1 15.6+	305	170	—0.2—	+0.0264—	—0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	—0.6—	+0.0173—	—1 10.7+	310	175	—0.1—	+0.0268—	—0 8.0+	355
131	0.6	176	1 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	1 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	1 6 4	314	179	0.0	268	0 1.6	359
135	—0.6—	+0.0190—	—1 5.3+	315	180	—0.0—	+0.0269—	—0 0.0+	360

$$l' = \lambda + \Delta\lambda - a\,(B - \beta) - L_{☾}\,; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$\rho \sin \varphi' = s \sin \varphi$; $\rho \cos \varphi' = c \cos \varphi$

φ	log s		log c		φ	log s		log c	
±0°	9.9970705	4	0.0000000	4	±40°	9.9976745	252	0.0006040	252
1	.9970709	14	.0000004	14	41	.9976997	254	.0006292	254
2	.9970723	22	.0000018	22	42	.9977251	255	.0006546	255
3	.9970745	31	.0000040	31	43	.9977506	255	.0006801	255
4	.9970776	40	.0000071	40	44	.9977761	255	.0007056	255
5	9.9970816	49	0.0000111	49	45	9.9978016	256	0.0007311	256
6	.9970865	57	.0000160	57	46	.9978272	255	.0007567	255
7	.9970922	66	.0000217	66	47	.9978527	255	.0007822	255
8	.9970988	74	.0000283	74	48	.9978782	254	.0008077	254
9	.9971062	83	.0000357	83	49	.9979036	252	.0008331	252
10	9.9971145	92	0.0000440	92	50	9.9979288	252	0.0008583	252
11	.9971237	99	.0000532	99	51	.9979540	249	.0008835	249
12	.9971336	108	.0000631	108	52	.9979789	247	.0009084	247
13	.9971444	116	.0000739	116	53	.9980036	245	.0009331	245
14	.9971560	123	.0000855	123	54	.9980281	242	.0009576	242
15	9.9971683	131	0.0000978	131	55	9.9980523	239	0.0009818	239
16	.9971814	139	.0001109	139	56	.9980762	235	.0010057	235
17	.9971953	146	.0001248	146	57	.9980997	232	.0010292	232
18	.9972099	154	.0001394	154	58	.9981229	228	.0010524	228
19	.9972253	160	.0001548	160	59	.9981457	224	.0010752	224
20	9.9972413	168	0.0001708	168	60	9.9981681	220	0.0010976	220
21	.9972581	174	.0001876	174	61	.9981901	215	.0011196	215
22	.9972755	180	.0002050	180	62	.9982116	209	.0011411	209
23	.9972935	187	.0002230	187	63	.9982325	205	.0011620	205
24	.9973122	192	.0002417	192	64	.9982530	199	.0011825	199
25	9.9973314	198	0.0002609	198	65	9.9982729	193	0.0012024	193
26	.9973512	204	.0002807	204	66	.9982922	188	.0012217	188
27	.9973716	209	.0003011	209	67	.9983110	181	.0012405	181
28	.9973925	214	.0003220	214	68	.9983291	175	.0012586	175
29	.9974139	219	.0003434	219	69	.9983466	168	.0012761	168
30	9.9974358	223	0.0003653	223	70	9.9983634	161	0.0012929	161
31	.9974581	227	.0003876	227	71	.9983795	154	.0013090	154
32	.9974808	232	.0004103	232	72	.9983949	147	.0013244	147
33	.9975040	235	.0004335	235	73	.9984096	140	.0013391	140
34	.9975275	238	.0004570	238	74	.9984236	132	.0013531	132
35	9.9975513	241	0.0004808	241	75	9.9984368	124	0.0013663	124
36	.9975754	245	.0005049	245	76	.9984492	117	.0013787	117
37	.9975999	246	.0005294	246	77	.9984609	108	.0013904	108
38	.9976245	249	.0005540	249	78	9984717	100	.0014012	100
39	.9976494	251	.0005789	251	79	.9984817	92	.0014112	92
40	9.9976745		0.0006040		80	9.9984909		0.0014204	

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abbadia	69	+43 22 52.2	+ 0 7 0.1	+ 1.15	+43 11 17.8	9.999317
Åbo	—	+60 26 56.8	— 1 29 6.30	— 14.64	+60 16 58.8	9.998894
Adelaide	41	—34 55 35.1	— 9 14 19.90	— 91.06	—34 44 42.7	9.999526
Albany (N. Stw.)[1] . .	40	+42 39 12.8	+ 4 55 7.12	+ 48.48	+42 27 39.7	9.999334
Algier (N. Stw.)[2] . . .	345	+36 48 4.8	— 0 12 8.47	— 1.99	+36 36 58.1	9.999497
Allegheny (N. Stw.) . .	370	+40 28 58.1	+ 5 20 5.39	+ 52.59	+40 17 31.4	9.999411
Allegheny (A. Stw.) . .	349	+40 27 41.6	+ 5 20 2.97	+ 52.58	+40 16 15.0	9.999411
Amherst (Neue Stw.) . .	110	+42 21 56.5	+ 4 50 5.98	+ 47.66	+42 10 24.0	9.999346
Amherst (Alte Stw.) . .	122	+42 22 17.1	+ 4 50 4.72	+ 47.66	+42 10 44.6	9.999347
Ann Arbor	282	+42 16 48.7	+ 5 34 55.27	+ 55.02	+42 5 16.4	9.999360
Arcetri Zentr. d. St.[3] .	184	+43 45 14.4	— 0 45 1.30	— 7.39	+43 33 39.5	9.999316
Arequipa[4]	2451	—16 22 28.0	+ 4 46 11.73	+ 47.02	—16 16 12.7	0.000052
Armagh	64	+54 21 11	+ 0 26 35.48	+ 4.37	+54 10 11.4	9.999041
Athen	110	+37 58 15.5	— 1 34 52.2	— 15.58	+37 47 1.2	9.999456
Bamberg (Remeis' St.) .	288	+49 53 6.0	— 0 43 33.57	— 7.15	+49 41 40.0	9.999167
Barcelona[5]	415	+41 24 59.3	— 0 8 30.2	— 1.41	+41 13 29.4	9.999391
Beloit	245	+42 30 8.4	+ 5 56 7.4	+ 58.51	+42 18 35.6	9.999352
Bergedorf Mer.-Kr. . .	41	+53 28 46.9	— 0 40 57.74	— 6.73	+53 17 40.8	9.999060
Berkeley	94	+37 52 23.5	+ 8 9 2.80	+ 80.34	+37 41 9.8	9.999458
Berlin-Babelsberg[6] .	82	+52 24 24.2	— 0 52 25.49	— 8.61	+52 13 11.1	9.999089
Berlin (Urania)	—	+52 31 30.7	— 0 53 27.40	— 8.78	+52 20 18.3	9.999081
Bern	573	+46 57 8.7	— 0 29 45.55	— 4.89	+46 45 34.5	9.999261
Besançon	312	+47 14 59.0	— 0 23 57.1	— 3.93	+47 3 25.3	9.999236
Bloemfontein Filiale d. Detroit Obs.	1490	—29 5 45	— 1 44 57	— 17.24	—28 55 55	9.999758
Bloemfontein Boyden Stat. d. Harv. Obs.	1379	—29 12	— 1 45 57	— 17.40	—29 2	9.999748
Bogota	2640	+ 4 35 55.2	+ 4 56 19.51	+ 48.68	+ 4 34 4.4	0.000111
Bologna Zentr. d. Stw. .	84	+44 29 52.8	— 0 45 24.48	— 7.46	+44 18 17.3	9.999290
Bombay (Colaba) . . .	19	+18 53 36.2	— 4 51 15.60	— 47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Stw. . .	62	+50 43 45.0	— 0 28 23.18	— 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac) . .	73	+44 50 7.2	+ 0 2 6.56	+ 0.35	+44 38 31.6	9.999281
Boston (University)[7] .	31	+42 20 58	+ 4 44 19.1	+ 46.71	+42 9 25.6	9.999341
Bothkamp[8]	32	+54 12 9.6	— 0 40 31.2	— 6.65	+54 1 8.8	9.999042
Breslau Zentr. d. Stw. .	147	+51 6 56.5	— 1 8 8.72	— 11.19	+50 55 36.1	9.999126
Breslau Neue Sternw. .	117	+51 6 41	— 1 8 21.19	— 11.23	+50 55 20.6	9.999130
Brisbane	51	—27 28 23.0	—10 12 6.48	—100.55	—27 18 54.6	9.999694
Brüssel (Alte Sternw.) Pass. Instr. .	56	+50 51 10.7	— 0 17 28.71	— 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kr. .	105	+50 47 54.6	— 0 17 26.05	— 2.86	+50 36 32.7	9.999131
Budapest Univ. Stw. .	110	+47 29 34.7	— 1 16 15.4	— 12.53	+47 18 1.5	9.999215

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″.0 nördlich, $7^s.10$ östlich. — [2]) Alte Sternwarte 3′.8 südlich, 8^s östlich. — [3]) Seit Oktober 1872, früher in Florenz. — [4]) 1927 geschlossen und nach Bloemfontein verlegt. — [5]) J. Comas Solá. — [6]) Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5′ 52″.5 nördlich und $1^m\ 9^s.31$ östlich. — [7]) Die alte Sternwarte lag $4^s.1$ östlich, 34″.5 nördlich. — [8]) Herr von Bülow.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Budapest[1]	110	+47 28 49	−1 16 13.7	−12.53	+47 17 16	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	−1 44 27.01	−17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	−0 0 22.75	− 0.06	+52 1 37.3	9.999090
Cambridge Mass.[2]) .	24	+42 22 47.6	+4 44 31.05	+46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	10	−33 56 6.8	−1 13 54.60	−12.14	−33 45 23.2	9.999547
Catania	47	+37 30 13.3	−1 0 20.6	− 9.91	+37 19 1.9	9.999466
Charkow	139	+50 0 9.9	−2 24 55.72	−23.81	+49 48 44.4	9.999153
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	−0 53 20.5	− 8.76	+52 19 36.2	9.999085
Charlottesville[3]) . .	259	+38 2 1.2	+5 14 5.33	+51.60	+37 50 46.5	9.999464
Christiania (Oslo) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Stw.) .	—	+39 6 26.5	+5 37 59.09	+55.52	+38 55 6.0	9.999421
Cincinnati (Neue Stw.)[4])	247	+39 8 19.8	+5 37 41.40	+55.47	+38 56 59.1	9.999437
Cleveland (Case Obs.) .	215	+41 30 14.5	+5 26 25.86	+53.63	+41 18 44.3	9.999375
Coimbra	99	+40 12 24.5	+0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri[5]) .	225	+38 56 12	+6 9 18.37	+60.67	+38 44 52.3	9.999442
Cordoba	434	−31 25 15.5	+4 16 48.22	+42.19	−31 14 57.5	9.999635
Danzig	3	+54 21 18.0	−1 14 39.6	−12.26	+54 10 18.4	9.999036
Denver[6])	1644	+39 40 36.4	+6 59 47.72	+68.96	+39 29 13.1	9.999519
Dorpat (Tartu, Jurjew) Mer.-Kr.	67	+58 22 47.2	−1 46 53.19	−17.56	+58 12 25.1	9.998946
Dresden (Geodät. Inst.)	168	+51 1 49.3	−0 54 55.1	− 9.02	+50 50 28.5	9.999130
Dresden (Mathem. Salon)	—	+51 3 14.7	−0 54 55.83	− 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) .	86	+53 23 13.1	+0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	−0 27 2.69	− 4.44	+51 1 5.1	9.999117
Durham	108	+54 46 6.2	+0 6 19.75	+ 1.04	+54 35 9.8	9.999033
Edinburgh	146	+55 55 30	+0 12 44.1	+ 2.09	+55 44 43.5	9.999008
Edinburgh (Blackf. Hill)	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)	175	+42 3 33.4	+5 50 42.3	+57.61	+41 52 1.6	9.999358
Faenza (Urania Lamonia)	45	+44 17 2	−0 47 33.9	− 7.81	+44 5 27	9.999293
Flagstaff (Lowell Obs.) .	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.)[7])	73	+43 46 4.1	−0 44 59.6	− 7.39	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	72	+43 46 49.4	−0 45 2.5	− 7.40	+43 35 14.5	9.999308
Frankfurt a. M. . .	121	+50 7 0	−0 34 36.3	− 5.70	+49 55 34.6	9.999149
Genf Mer.-Kreis	406	+46 11 59.3	−0 24 36.53	− 4.04	+46 0 24.1	9.999269
Genua (Mar. Stw.) Mer.-Kr.	108	+44 25 8.1	−0 35 41.28	− 5.86	+44 13 32.6	9.999294
Georgetown D. C. . .	62	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999430
Glasgow Schottl. . .	55	+55 52 42.1	+0 17 10.55	+ 2.82	+55 41 55.2	9.999003
Glasgow Missouri . .	228	+39 13 45.6	+6 11 18.06	+61.00	+39 2 24.5	9.999433

[1]) Observ. der Kgl. Josef-Technischen Hochschule. — [2]) Harvard College Observatory. — [3]) Leander Mc. Cormick Observatory, University of Virginia. — [4]) Mount Lookout seit 1873. — [5]) Laws Observatory. — [6]) University Park, Chamberlin Observatory. — [7]) 1872 nach Arcetri verlegt.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Göttingen Mer.-Kreis . .	161	+51 31 48.2	—0 39 46.22	— 6.53	+51 20 30.0	9.999117
Gotha (Neue Stw.) Zentr. d. St.¹)	322	+50 56 37.9	—0 42 50.51	— 7.04	+50 45 16.7	9.999142
Graz	375	+47 4 37.2	—1 1 47.71	—10.15	+46 53 3.2	9.999244
Greenwich Transit Circle	47	+51 28 38.2	0 0 0.00	0.00	+51 17 19.7	9.999110
Groningen	4	+53 13 13.8	—0 26 15.11	— 4.31	+53 2 6.0	9.999064
Hamburg (Alt. Stw.) M.-Kr.²)	25	+53 33 6.0	—0 39 53.60	— 6.55	+53 22 0.4	9.999057
Hamburg (D. Seewarte) .	30	+53 32 51.8	—0 39 53.42	— 6.55	+53 21 46.2	9.999058
Hanover N. H.	183	+43 42 15.3	+4 49 8.00	+47.50	+43 30 40.5	9.999317
Haverford	116	+40 0 40.1	+5 1 12.7	+49.48	+39 49 15.4	9.999406
Heidelberg (Wolfs Stw.)	126	+49 24 35	—0 34 48.4	— 5.72	+49 13 7	9.999159
Heidelberg (Königst.) M.-Kr.	570	+49 23 54.6	—0 34 53.13	— 5.73	+49 12 26.8	9.999198
Helsingfors Mer.-Kreis .	33	+60 9 42.3	—1 39 49.10	—16.40	+59 59 40.8	9.998903
Helwan	115	+29 51 31.1	—2 5 21.77	—20.59	+29 41 31.4	9.999648
Hongkong	33	+22 18 13.2	—7 36 41.25	—75.02	+22 10 5.8	9.999793
Hyderabad-Deccan³)	554	+17 25 54.3	—5 13 48.98	—51.55	+17 19 17.7	9.999907
Innsbruck	605	+47 16 7.7	—0 45 31.42	— 7.48	+47 4 34.0	9.999254
Jena (Univers.) Zentr. d. St.	164	+50 55 35.6	—0 46 20.22	— 7.61	+50 44 14.3	9.999131
Jena (Winkler)	174	+50 56 15.7	—0 46 20.73	— 7.61	+50 44 54.5	9.999132
Johannesburg	1786	—26 10 52.1	—1 52 17.9	—18.45	—26 1 42.0	9.999839
Johannesburg (Filiale des Yale Observ.)	1741	—26 11 14	—1 52 7	—18.42	—26 2 4	9.999836
Kairo	—	+30 4 38.2	—2 5 8.80	—20.56	+29 54 35.8	9.999635
Kalocsa⁴)	102	+46 31 42.4	—1 15 54.34	—12.47	+46 20 7.6	9.999239
Karlsruhe⁵)	110	+49 0 29.6	—0 33 35.40	— 5.52	+48 49 0.4	9.999177
Kasan (Univers.)	79	+55 47 24.3	—3 16 29.03	—32.28	+55 36 36.6	9.999007
Kasan (Engelhardt) . . .	98	+55 50 20.5	—3 15 15.74	—32.08	+55 39 33.2	9.999007
Kew	10	+51 28 6	+0 1 15.1	+ 0.21	+51 16 47.5	9.999108
Kiel Neuer Mer.-Kreis . .	52	+54 20 27.6	—0 40 35.45	— 6.67	+54 9 27.9	9.999040
Kiel Alter Mer.-Kreis . .	47	+54 20 28.5	—0 40 35.57	— 6.67	+54 9 28.8	9.999040
Kiew Mer.-Kreis	184	+50 27 11.8	—2 2 0.56	—20.04	+50 15 48.3	9.999145
Kodaikanal	2343	+10 13 50	—5 9 52.0	—50.94	+10 9 47.6	0.000114
Königsberg Reps. M.-Kr.⁶)	22	+54 42 50.6	—1 21 58.98	—13.47	+54 31 53.8	9.999029
Konstanz⁷)	420	+47 39 43.6	—0 36 42.01	— 6.03	+47 28 10.7	9.999232
Kopenhagen (Neue Stw.)⁸)	14	+55 41 12.6	—0 50 18.69	— 8.26	+55 30 24.0	9.999005
Kopenhagen (Urania-St.)	10	+55 41 19.2	—0 50 9.11	— 8.24	+55 30 30.6	9.999005
Krakau Mer.-Kreis . . .	221	+50 3 51.9	—1 19 50.28	—13.11	+49 52 26.7	9.999158
Kremsmünster Mer.-Kr.	384	+48 3 23.1	—0 56 31.58	— 9.28	+47 51 51.1	9.999219

¹) Seit 1857, früher Seeberg. — ²) 1909 nach Bergedorf verlegt. — ³) Nizamiah Observatory. — ⁴) Erzbischöfl. Haynaldsche Sternwarte. — ⁵) 1896 nach Heidelberg verlegt. — ⁶) Nach 1898, vor 1898 0ˢ.01 westlich. — ⁷) Privatsternwarte von E. Leiner. — ⁸) Seit 1861 Nov. 11. Alte Sternwarte 20″.3 südlich, 0ˢ.03 westlich.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kyoto (Astron. Institute) .	55	+35 1 37.1	−9 3 7.0	−89.22	+34 50 43.9	9.999525
Kyoto (Kwasan Observ.) .	220	+34 59 35	−9 3 10.2	−89.23	+34 48 42	9.999537
Landstuhl (Fauth) . . .	385	+49 24 42.5	−0 30 16.35	− 4.97	+49 13 14.7	9.999185
La Plata Mer. Kr. Gautier	17	−34 54 30.3	+3 51 43.74	+38.07	−34 43 38.1	9.999525
Leiden (Neue Stw.) Mer.-Kr.[1])	6	+52 9 19.8	−0 17 56.15	− 2.94	+51 58 5.2	9.999090
Leipzig (Neue Stw.) Zentr.[2])	119	+51 20 5.9	−0 49 33.93	− 8.14	+51 8 46.7	9.999119
Lembang (Bosscha St.) .	1300	− 6 49 29.1	−7 10 27.81	−70.71	− 6 46 45.5	0.000068
Lemberg (Techn. Hochsch.) Pass. Instr.	340	+49 50 11.2	−1 36 3.40	−15.78	+49 38 45.0	9.999171
Leningrad (Petersburg) (Akad.) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Leningrad (Petersburg) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Lissabon (Tapada) . .	94	+38 42 30.5	+0 36 44.68	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Stw.) . .	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Stw.)[3])	62	+53 24 4.8	+0 12 17.33	+ 2.02	+53 12 58.2	9.999063
Lourenço Marques .	60	−25 58 5.5	−2 10 22.63	−21.42	−25 48 58.9	9.999725
Lübeck (Navig.-Sch.) .	19	+53 51 31.1	−0 42 45.6	− 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Stw. . .	34	+55 41 51.6	−0 52 44.97	− 8.66	+55 31 3.1	9.999006
Lüttich Ougrée . . .	128	+50 37 6	−0 22 12	− 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	−0 19 8.5	− 3.14	+45 30 5.3	9.999274
Madison (Washburn Obs.)	292	+43 4 36.8	+5 57 37.90	+58.75	+42 53 2.9	9.999340
Madras	7	+13 4 8.0	−5 20 59.65	−52.73	+12 59 2.5	9.999926
Madrid Zentr. d. Stw. . .	656	+40 24 30.1	+0 14 45.09	+ 2.43	+40 13 3.7	9.999433
Mailand, Brera . . .	120	+45 27 59.2	−0 36 45.89	− 6.04	+45 16 23.6	9.999268
Manila	3	+14 35 25	−8 3 50	−79.48	+14 29 47	9.999908
Mannheim Zentr. d. Stw.	98	+49 29 11.0	−0 33 50.42	− 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	−0 35 4.9	− 5.76	+50 37 25.0	9.999141
Mare Island Calif. .	18	+38 5 55.8	+8 9 5.63	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper) .	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (N. St.) M.-Kr.[4])	75	+43 18 19.1	−0 21 34.56	− 3.54	+43 6 44.8	9.999320
Melbourne	28	−37 49 53.4	−9 39 54.17	−95.26	−37 38 39.9	9.999454
Merate (Filiale v. Mailand, Brera) .	380	+45 41 54.1	−0 37 42.85	− 6.20	+45 30 18.6	9.999279
Meudon	162	+48 48 18	−0 8 55.5	− 1.46	+48 36 48	9.999185
Mexico	2277	+19 26 1.3	+6 36 26.71	+65.13	+19 18 45.9	9.999995
Middletown, Conn. .	70	+41 33 18	+4 50 38.2	+47.74	+41 21 47.6	9.999364
Mizusawa	61	+39 8 3.4	−9 24 31.46	−92.74	+38 56 42.7	9.999424
Modena	63	+44 38 52.8	−0 43 42.8	− 7.18	+44 27 17.2	9.999285
Montreal	57	+45 30 20	+4 54 18.63	+48.35	+45 18 44.4	9.999263
Mt. Hamilton (Lick) Mkr.	1283	+37 20 25.6	+8 6 34.86	+79.94	+37 9 15.2	9.999552
Mt. Wilson Calif. . .	1742	+34 12 59.5	+7 52 14.33	+77.57	+34 2 13.3	9.999659

[1]) Seit 1860. Alte Sternwarte 8″.0 nördlich, $0^s.42$ östlich. — [2]) Seit 1861. Alte Sternwarte 14″.2 nördlich, $4^s.00$ westlich. — [3]) Alte Sternwarte 44″.0 nördlich, $17^s.1$ östlich. — [4]) Seit 1866. Alte Sternwarte 30″.1 südlich, $6^s.2$ westlich; Seehöhe 29^m.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−2 30 17.03	−24.69	+55 34 31.5	9.999012
Mundenheim[1]) . . .	—	+49 27 30	−0 33 44	− 5.54	+49 16 2	9.999158
München West-Kuppel	529	+48 8 45.5	−0 46 26.02	− 7.63	+47 57 13.8	9.999227
Münster	75	+51 57 45.8	−0 30 29.66	− 5.01	+51 46 30.0	9.999100
Nashville (Vanderbilt Obs.)	174	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999506
Natal	79	−29 50 46.6	−2 4 1.18	−20.37	−29 40 47.0	9.999645
Neapel (Capo di M.) . .	154	+40 51 45.7	−0 57 1.40	− 9.37	+40 40 17.6	9.999387
Neuchâtel Refraktor .	488	+46 59 49.5	−0 27 49.77	− 4.57	+46 48 15.4	9.999254
New Haven (Neue Stw.)[2])	40	+41 19 22.3	+4 51 40.58	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd)	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. Obs.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew Mer.-Kr. . .	55	+46 58 19.3	−2 7 53.98	−21.01	+46 46 45.1	9.999225
Nizza Kl. Mer.-Kr.[3]) . .	378	+43 43 16.9	−0 29 12.15	− 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	290	+44 27 41.4	+6 12 35.94	+61.21	+44 16 5.9	9.999305
Oakland Californ.[4]) .	99	+37 47	+8 8 48	+80.30	+37 35 47	9.999460
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−2 3 2.05	−20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa)	—	+46 28 36.0	−2 3 2.19	−20.21	+46 17 1.1	9.999234
Oslo (Christiania) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Ottawa Mer.-Kr. . . .	85	+45 23 39.1	+5 2 51.98	+49.75	+45 12 3.5	9.999267
Oxford (Radcl. Obs.) . .	65	+51 45 33.9	+0 5 3.0	+ 0.83	+51 34 17.0	9.999104
Oxford (Univers.) . . .	64	+51 45 34.2	+0 5 0.4	+ 0.82	+51 34 17.3	9.999104
Oxford, Mississippi .	140	+34 22 12.6	+5 58 7.18	+58.83	+34 11 25.1	9.999546
Padua	38	+45 24 1.2	−0 47 29.15	− 7.80	+45 12 25.6	9.999263
Palermo	72	+38 6 44.0	−0 53 25.87	− 8.78	+37 55 28.9	9.999451
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	−0 9 20.93	− 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	−0 9 20.6	− 1.53	+48 37 48.2	9.999174
Peking	—	+39 54 23.0	−7 45 52.87	−76.53	+39 42 58.7	9.999401
Perth West.-Austr. . .	60	−31 57 10.7	−7 43 21.62	−76.12	−31 46 46.9	9.999597
Petersburg (Leningrad) (Akademie) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Petersburg (Leningrad) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Philadelphia[5]) . . .	74	+39 58 2.1	+5 1 6.88	+49.47	+39 46 37.5	9.999404
Plonsk[6])	—	+52 37 40.0	−1 21 31.9	−13.39	+52 26 28.2	9.999078
Pola	32	+44 51 48.6	−0 55 23.07	− 9.10	+44 40 12.9	9.999277
Porto Alegre[7]) Mer.-Kr.	—	−30 1 51	+3 24 53.2	+33.66	−29 51 49	9.999636
Portsmouth	—	+50 48 3	+0 4 24.8	+ 0.73	+50 36 41	9.999124
Posen	85	+52 23 48.6	−1 7 30.60	−11.09	+52 12 35.4	9.999090

[1]) Dr. Max Mündler. — [2]) Yale University. Alte Sternwarte 45″.8 südlich, 1s.58 westlich. — [3]) Herr R. Bischofsheim. — [4]) Chabot Observatory. — [5]) Flower Obs. (Univ. of Pennsylvania). — [6]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [7]) Observatorio Regional do Rio Grande do Sul.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Potsdam (Astrophys. Obs.)	97	+52 22 56.0	− 0 52 15.86	− 8.58	+52 11 42.7	9.999091
Potsdam (Geod. Inst.) Turm	99	+52 22 54.8	− 0 52 16.11	− 8.58	+52 11 41.5	9.999091
Poughkeepsie[1]) . . .	61	+41 41 18	+ 4 55 33.6	+48.56	+41 29 47	9.999360
Prag (Univ.-Stw.) Turm .	197	+50 5 16.0	− 0 57 40.29	− 9.47	+49 53 50.9	9.999155
Prag (Safarik)	—	+50 4 24	− 0 57 48	− 9.49	+49 52 59	9.999142
Princeton N. J. (N. Stw.)[2])	75	+40 20 55.8	+ 4 58 39.44	+49.06	+40 9 29.7	9.999395
Providence[3])	171	+41 49 46.4	+ 4 45 37.64	+46.92	+41 38 15.2	9.999363
Pulkowa Zentr. d. Stw.	75	+59 46 18.5	− 2 1 18.57	−19.93	+59 36 12.3	9.998914
Quebec Canada . . .	90	+46 47 59.2	+ 4 44 52.71	+46.80	+46 36 24.8	9.999231
Quito	2846	− 0 14 0	+ 5 13 58.20	+51.58	− 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	− 1 36 28.11	−15.84	+56 46 30	9.998974
Rio de Janeiro . . .	63	−22 54 23.7	+ 2 52 41.52	+28.37	−22 46 6.0	9.999784
Rio de Janeiro (N. Stw.)	33	−22 53 41	+ 2 52 53.5	+28.40	−22 45 24	9.999782
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	− 0 49 55.36	− 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr. .	65	+41 53 33.2	− 0 49 56.34	− 8.20	+41 42 1.9	9.999355
Rom (Vatican) Mer.-Kr. .	100	+41 54 12.4	− 0 49 48.26	− 8.18	+41 42 41.1	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	119	+52 22 30	+ 0 5 2.0	+ 0.83	+52 11 16.7	9.999093
St. Louis Missouri .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
San Fernando . . .	30	+36 27 42.0	+ 0 24 49.30	+ 4.08	+36 16 37.7	9.999488
San Francisco[4]) . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N. St.)	580	−33 33 44.2	+ 4 42 46.0	+46.44	−33 23 4.1	9.999595
Santiago de Chile (A. St.)	619	−33 26 25.4	+ 4 42 36.9	+46.42	−33 15 46.4	9.999600
Sétif	1120	+36 11 10	− 0 21 38.6	− 3.55	+36 0 7.7	9.999569
Simeïs	360	+44 24 11.1	− 2 15 58.1	−22.34	+44 12 35.6	9.999312
Sonneberg (Hoffmeister)	405	+50 21 29.5	− 0 44 42.87	− 7.34	+50 10 5.5	9.999163
Sonneberg (Erbisbühl)	640	+50 22 41.4	− 0 44 46.19	− 7.36	+50 11 17.5	9.999178
South Hadley	76	+42 15 18.2	+ 4 50 19	+47.69	+42 3 45.9	9.999346
Stará Dala[5])	113	+47 52 27.3	− 1 12 45.49	−11.95	+47 40 54.9	9.999206
Stockholm Mer.-Kreis	44	+59 20 32.7	− 1 12 13.97	−11.86	+59 10 21.4	9.998922
Stonyhurst	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (N. St.). M.-Kr.[6])	144	+48 35 0.4	− 0 31 4.53	− 5.10	+48 23 29.9	9.999190
Sydney	44	−33 51 41.1	−10 4 49.54	−99.36	−33 40 58.2	9.999551
Tacubaya[7])	2311	+19 24 17.9	+ 6 36 46.71	+65.18	+19 17 3.0	9.999997
Tartu (Dorpat, Jurjew) Mer.-Kr.	67	+58 22 47.2	− 1 46 53.19	−17.56	+58 12 25.1	9.998946
Taschkent	479	+41 19 36.7	− 4 37 10.57	−45.53	+41 8 7.1	9.999398

[1]) Vassar College. — [2]) Alte Sternwarte 2″.0 nördlich, 1s.94 östlich; 65m. — [3]) Seagrave. Ladd Observatory 35″ nördlich, 1s.57 östlich. — [4]) Davidson Observatory. — [5]) Früher O-Gyalla. — [6]) Seit Anfang 1881. — [7]) Seit März 1883, früher in Chapultepec.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Teramo (Cerulli)	398	+42 39 27	− 0 54 55.8	− 9.02	+42 27 54	9.999358
Tokio	59	+35 40 21.4	− 9 18 10.09	− 91.69	+35 29 23.0	9.999509
Toronto	116	+43 40 1.3	+ 5 17 34.67	+ 52.17	+43 28 26.5	9.999313
Tortosa (Ebro-Stw.) M.-Kr.	54	+40 49 14	− 0 1 58	− 0.32	+40 37 46	9.999382
Toulouse Mer.-Kr. . . .	195	+43 36 44.0	− 0 5 51.2	− 0.96	+43 25 9.3	9.999320
Triest	23	+45 38 45.4	− 0 55 2.90	− 9.04	+45 27 9.9	9.999256
Tsingtau (Met.-astr. Stat.) .	—	+36 4 11.3	− 8 1 16.21	− 79.06	+35 53 9.8	9.999496
Tucson Arizona (Steward Obs.) .	757	+32 13 59.4	+ 7 23 47.68	+ 72.90	+32 3 32.6	9.999638
Turin Mer.-Kr.	276	+45 4 7.9	− 0 30 47.15	− 5.06	+44 52 32.2	9.999288
Turin (Pino Torinese) . .	618	+45 2 16.3	− 0 31 5.95	− 5.11	+44 50 40.6	9.999312
Upsala (N.Stw.) Pass.-Instr.	21	+59 51 29.4	− 1 10 30.13	− 11.58	+59 41 24.2	9.998909
Urbana Ill.	236	+40 6 20.2	+ 5 52 53.90	+ 57.97	+39 54 55.1	9.999412
Utrecht	12	+52 5 9.5	− 0 20 31.6	− 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	100	+50 52 29.3	− 0 23 19.91	− 3.83	+50 41 7.8	9.999129
Venedig	15	+45 26 10.5	− 0 49 22.12	− 8.11	+45 14 34.9	9.999261
Victoria B. C. (Dominion Obs.)	229	+48 31 15.7	+ 8 13 40.17	+ 81.18	+48 19 45.0	9.999197
Warschau[1]) Zentr. d. Stw.	121	+52 13 4.6	− 1 24 7.25	− 13.82	+52 1 50.3	9.999097
Warschau[2])	—	+52 13 10	− 1 24 4.8	− 13.81	+52 1 56	9.999088
Warschau (Techn. Hochsch.)	144	+52 13 21.0	− 1 24 2.4	− 13.81	+52 2 6.8	9.999098
Washington (Alte Stw.) .	31	+38 53 38.9	+ 5 8 12.13	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.) .	82	+38 55 14.0	+ 5 8 15.78	+ 50.64	+38 43 54.4	9.999431
Washington (Kath.Univ.) .	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr.[3])	127	−41 17 3.8	−11 39 4.27	−114.84	−41 5 34.3	9.999375
West Point N.Y. (N. Stw.)[4])	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Wien (Alte Sternw.)	167	+48 12 35.5	− 1 5 31.61	− 10.76	+48 1 3.9	9.999201
Wien (Josephstadt)[5]) . . .	214	+48 12 53.8	− 1 5 25.17	− 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr. .	240	+48 13 55.3	− 1 5 21.35	− 10.73	+48 2 23.8	9.999205
Wien (Ottakring)[6])	285	+48 12 46.7	− 1 5 10.97	− 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.) . .	211	+48 12 40.5	− 1 5 26.24	− 10.75	+48 1 8.9	9.999203
Wien (Techn. Hochschule) .	198	+48 11 58.3	− 1 5 29.76	− 10.76	+48 0 26.7	9.999204
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	− 0 32 35.15	− 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc.[7]).	334	+42 34 12.6	+ 5 54 13.24	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass. . .	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Wilna Pass.-Instr.	122	+54 40 59.1	− 1 41 8.76	− 16.61	+54 30 2.1	9.999036
Windsor N. S. W.[8]) . .	16	−33 36 30.8	−10 3 20.77	− 99.11	−33 25 50.2	9.999556
Wolfersdorf	279	+50 47 20.0	− 0 46 50.94	− 7.70	+50 35 58.0	9.999143
Zô-sè China	100	+31 5 47.6	− 8 4 44.75	− 79.63	+30 55 33.2	9.999619
Zürich Meridian-Kreis . .	468	+47 22 38.3	− 0 34 12.3	− 5.62	+47 11 4.8	9.999242

[1]) Universitäts-Sternwarte. — [2]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — [3]) Dominion Observatory. — [4]) Seit 1883. Alte Sternwarte 9″ nördlich, 1s.2 östlich. — [5]) von Oppolzers Sternwarte. — [6]) v. Kuffner. — [7]) Yerkes Observatory. — [8]) J. Tebbutt. Neue Sternwarte, 0″.4 südlich von der alten.

Normalzeiten der wichtigeren Länder

a) An den Meridian von Greenwich angeschlossen

Normalzeit = Mittl. Ortszeit des Meridians	Bezeichnung	Staaten
östl. Gr.		
11h 30m	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina
5 30	—	Indien, Ceylon
3 0	—	Europ. Rußland östl. von etwa 40° östl. Länge
2 30	—	Deutsch Ostafrika
2 0	Osteuropäische Z.	Finnland, Estland, Lettland, Europ. Rußland westl. von etwa 40° östl. Länge, Bulgarien, Rumänien, Griechenland, Türkei, Palästina, Ägypten, Süd-Afrika
1 0	Mitteleuropäische Z. (M. E. Z.)	Dänemark, Deutschland, Italien, Norwegen, Österreich, Ungarn, Schweden, Schweiz, Jugoslawien, Polen, Deutsch Südwest-Afrika
0h 0m	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Luxemburg, Portugal, Spanien, Gibraltar, Algerien
westl. Gr.		
3h 0m	—	Ost-Brasilien
4 0	Atlantic St. Time	Mittel-Brasilien, Argentinien, Uruguay, Canada (Küste)
4 30	—	Venezuela
5 0	Eastern St. Time	Canada (Quebec, Ontario bis 82° 30′ westl.), Vereinigte Staaten (Ost-Zone), Chile, Panama, Peru, West-Brasilien
6 0	Central St. Time	Zentral-Zone von Canada und Vereinigte Staaten, Ostmexico
7 0	Mountain St. Time	Gebirgszone von Canada und Vereinigte Staaten, Westmexico
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Columbien
10 30	—	Sandwich Inseln

b) Nicht an den Meridian von Greenwich angeschlossen

Staaten	Meridian	Längendifferenz gegen Greenwich
Columbien	Bogota	4h 56m 52s.4 W.
Ecuador	Quito	5 14 6.7 W.
Niederlande	Amsterdam	0 19 30.5 O.

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind in Welt-Zeit ausgedrückt, wenn nicht ausdrücklich eine andere Zeit angegeben wird. **Welt-Zeit ist identisch mit Bürgerlicher Zeit Greenwich.** Der bürgerliche Tag beginnt um Mitternacht, die Welt-Zeit-Stunden sind von 0^h bis 24^h durchgezählt. Die Beziehung zu der bis zum Jahrgang 1924 (einschließlich) im Jahrbuch verwendeten Mittleren Zeit Greenwich besteht darin, daß der astronomische mittlere Tag erst am Mittag des bürgerlichen Tages, also 12^h nach dessen Anfang beginnt. Somit ist 1925 Jan. 1, 0^h Welt-Zeit gleich 1924 Dez. 31, 12^h Mittlere Zeit Greenwich.

Die Örter der *Fixsterne* sind gegeben als »Mittlere Sternörter«, bezogen auf das mittlere Äquinoktium des Jahresanfangs, und in Ephemeridenform als »Scheinbare Sternörter«, bezogen auf das instantane wahre Äquinoktium.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—38).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für 0^h Welt-Zeit an jedem Tage:

1) Die Zeitgleichung = Mittlere Zeit *minus* Wahre Zeit.

2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzenreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.

3) Die halbe Durchgangsdauer (in Sternzeit) der Sonnenscheibe durch den Meridian.

4) Den geozentrischen Halbmesser der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Die Julianische Zeit, d. i. die Anzahl der seit Beginn der Julianischen Periode verflossenen mittleren Sonnentage.

2) Die Sternzeit für 0^h Welt-Zeit. In ihr sind, wie im Vorwort erwähnt, nur die langperiodischen Glieder der Nutation enthalten.

Um für einen anderen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seiner mittleren Mitternacht zu erhalten, ist zu diesen Angaben zuzulegen: $9^s.8565\,\Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die Nutation in Rektaszension getrennt nach langperiodischen und kurzperiodischen Gliedern.

4) Die geozentrischen ekliptikalen Koordinaten λ, β der Sonne, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie log R, den Logarithmus der Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

5) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50^\circ$ Breite; sie sind mit der Horizontalrefraktion $34'$ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen $+30^\circ$ und $+60^\circ$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 334*, 335* zu benutzen.

Auf S. 20—37 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen geozentrischen äquatorialen Sonnenkoordinaten für 0^h und 12^h Welt-Zeit mit ihren ersten Differenzen. Am Fuß der Seite 37 finden sich die Zeiten für die Anfänge der Jahreszeiten und für die Erdnähe und Erdferne der Sonne.

Die Seite 38 enthält die Aberration, Parallaxe, mittlere Länge $L_\odot$ und mittlere Anomalie $M_\odot$ der Sonne im Intervall von je 10 Tagen.

Mondephemeride (S. 39—57).

Seite 39 enthält die Zeitangaben für die Phasen und die Erdnähe und Erdferne des Mondes.

Die Mondephemeride (S. 40—57) gibt auf den linken Seiten für 0^h Welt-Zeit:

1) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.

2) Die Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den geozentrischen Mondhalbmesser $r_☾$, d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

4) Die Länge und Breite des Mondes, abgekürzt auf $0^\circ.001$.

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes durch den Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die bürgerliche Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h westlicher Längendifferenz.

2) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50^\circ$ Breite nebst Änderung

für 1^h westlicher Längendifferenz; sie sind mit der Horizontalrefraktion 34′ berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen $+30^\circ$ und $+60^\circ$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 336*, 337* zu benutzen.

Ephemeriden der Großen Planeten
(S. 58—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus, Mars, Jupiter, Saturn von Tag zu Tag, für Uranus und Neptun von 4 zu 4 Tagen für 0^h Welt-Zeit mit ihren ersten Differenzen gegeben, und zwar in scheinbaren, auf das momentane wahre Äquinoktium bezogenen Koordinaten. Die letzte Spalte gibt die bürgerliche Zeit (Greenwich) der oberen Kulmination in Greenwich.

Für die Reduktion und die Vergleichung der Planetenbeobachtungen mit der Ephemeride ist die Kenntnis der scheinbaren Halbmesser erforderlich. Man kann für dieselben in der Einheit der Entfernung annehmen:

für	Merkur	Halbmesser	. . . . .	3.34		
»	Venus	»	. . . . .	8.78		
»	Mars	»	. . . . .	4.68		
»	Jupiter	»	(Äquatorial)	99.8,	(Polar)	92.6
»	Saturn	»	(Äquatorial)	81.4,	(Polar)	73.4
»	Uranus	»	. . . . .	34.7		
»	Neptun	»	. . . . .	45		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge, deren Reduktion auf die Bahn und die Breite bezogen auf das mittlere Äquinoktium 1925.0.

☊ und i stellen die Bahnlage für die Epoche 1925.0 und das Normaläquinoktium 1925.0 dar.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 2*—25*).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Rechen-Instituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch numerische Integration berechnet.

Ein * vor dem Namen weist auf eine Anmerkung am Fuß der Seite hin.

Unter Gr. stehen die visuellen Größen, welche aus der »Revised Harvard Photometry« in »Harvard Annals, vol. 50« entnommen sind, sofern nichts Anderes bemerkt ist. Wo für einen Stern zwei Größen gegeben sind, beziehen sich diese auf die Komponenten eines Doppelsterns. Die in den Anmerkungen gegebenen Größen für Doppelsternkomponenten und für die Extrema der Veränderlichen sind dem »Henry Draper Catalogue« entnommen.

Die Spektren sind aus dem Draper Katalog übernommen worden. Zusammengesetzte Spektren sind durch + gekennzeichnet. In anderen Fällen beziehen sich, wo 2 Spektren gegeben sind, diese auf die Komponenten eines Doppelsterns.

Scheinbare Örter von 579 Fixsternen (S. 26*—235*).

Die scheinbaren Rektaszensionen und Deklinationen der Fixsterne sind für den Moment der oberen Kulmination im Meridian von Greenwich gegeben.

Die Ephemeriden der 555 Sterne mit Deklinationen kleiner als 80°, deren scheinbare Örter von 10 zu 10 Sterntagen gegeben sind, enthalten die kurzperiodischen Mondglieder der Nutation nicht. Das Datum des Tages, an welchem zwei Kulminationen stattfinden, ist in kleinem Druck vor der Rektaszensionsspalte angeführt.

Die jährliche Parallaxe ist bei folgenden Sternen berücksichtigt, bei denen sie 0″.20 übersteigt und hinreichend verbürgt erscheint, nämlich:

Nr. 59 τ Ceti	mit 0.″31		Nr. 538 α Centauri	mit 0.″75
Nr. 127 ε Eridani	» 0.32		Nr. 745 α Aquilae	» 0.23
Nr. 257 α Can. maj.	» 0.38		Nr. 793 61 Cygni	» 0.30
Nr. 291 α Can. min.	» 0.33			

Von den im B. J. nicht mit Ephemeriden versehenen Sternen des N. F. K. besitzt noch Nr. 825, ε Indi, eine Parallaxe von 0″.25.

Die Ephemeriden der auf S. 2*—24* eingeklammerten Sterne findet man im Almanaque Nautico.

Es folgen die scheinbaren Örter von 20 Polsternen für jede obere Kulmination. Sie enthalten die kurzperiodischen Mondglieder nicht, jedoch sind deren Werte in besonderen Spalten gegeben.

Am Fuße der Ephemeriden ist der mittlere Ort eines jeden Sternes für den Anfang des Jahres und die Werte von sec δ und tg δ angegeben, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden. Ferner sind hier die Größen a, b, a', b' enthalten, mit deren Hilfe die Nutationsglieder kurzer Periode leicht berechnet werden können. Man erhält $A'a + B'b$ in Zeitsekunden, $A'a' + B'b'$ in Bogensekunden.

Auf den Seiten 226*—235* sind die scheinbaren, rechtwinkligen Koordinaten von vier polnahen Sternen gegeben. Sie beziehen sich auf ein Koordinatensystem, dessen positive x-Achse nach dem Frühlingspunkt und dessen positive y-Achse nach dem Punkt $\alpha = 6^h$, $\delta = 0°$ gerichtet ist. Der Zusammenhang zwischen x, y und α, δ ist gegeben durch die Beziehungen: $x = \cos\delta \cos\alpha$, $y = \cos\delta \sin\alpha$. Die Angaben gelten für 12^h Sternzeit Greenwich und enthalten die kurzperiodischen Mondglieder der Nutation nicht, deren Werte jedoch in der letzten Spalte einer jeden Seite unter der Überschrift »Kurzperiod. Mondgl.« gegeben sind.

Als Quellen für die Koordinaten und Eigenbewegungen dieser vier Sterne sind benutzt worden:

für BD + 89° 1: L. Courvoisier: Beobachtungen des Sterns BD 89° 1 am großen Meridiankreis der Berliner Sternwarte. Astron. Nachr. Bd. **200**, 243,

für BD + 89° 3: L. Courvoisier: Ephemeriden der Polsterne BD 89° 3 und BD 89° 37 für 1923. Astron. Nachr. Bd. **217**, 319,

für BD + 89° 37: L. Courvoisier: Neue Position und Eigenbewegung des Polsterns BD + 89° 37. Astron. Nachr. Bd. **230**, 71,

für CPD − 89° 38: Cape Annals Bd. **XI**, II, 244 für den Ort und eine briefliche Mitteilung für die Eigenbewegung.

Mit den an diesen Stellen gegebenen Werten findet man folgende mittleren Örter für 1932.0:

Name	Gr.	x	Jährliche Veränd. 1932.5	Jährliche Eigenbw.	y	Jährliche Veränd. 1932.5	Jährliche Eigenbw.
	M	"	"	"	"	"	"
BD+89° 1	10.56	−119.20	−20.086	−0.024	+ 79.26	−0.037	−0.008
BD+89° 3	9.06	+ 81.74	−20.240	−0.003	+863.60	+0.010	−0.006
BD+89° 37	10.06	−901.75	−19.978	−0.011	−343.59	−0.189	+0.015
CPD−89° 38	9.5	−187.33	+20.140	+0.027	−307.48	−0.009	+0.031

Reduktionsgrößen (S. 236*—276*).

Auf die scheinbaren Örter der Sterne folgt S. 236* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer *ersten* Form: A, B, C, D, E; A', B' gegeben für 12^h Sternzeit des Meridians von Greenwich:

1) Auf S. 237* im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach

der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 256*—264* für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Mondglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Welt-Zeit vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der *zweiten* Form: f, $\log g$, G, $\log h$, H, $\log i$ und i, sowie f', g' und G' sind S. 238*—255* von Tag zu Tag für 0^h Welt-Zeit gegeben.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt. Ferner ist die Sternzeit Greenwich für 0^h Welt-Zeit gegeben.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f', g', G' noch folgende Größen:

a) ψ = Allgemeine Präzession seit Jahresanfang.
b) $\Delta\psi$ = Langperiodische Glieder der Nutation in Länge.
c) $\Delta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
d) ε = Wahre Schiefe der Ekliptik.
e) $\Delta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
f) $\Delta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.
g) Die Koeffizienten j und k, welche in den Formeln auf S. 267* vorkommen.

Die mittlere Schiefe erhält man durch Subtraktion der Gesamtnutation $(\Delta\varepsilon + \Delta\varepsilon')$ von der wahren Schiefe.

Auf S. 265* findet sich eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1932.0.

S. 266* enthält eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium 1932.0.

Auf S. 267* sind die Formeln zusammengestellt, mit welchen bei Anschlußbeobachtungen die gemessene scheinbare Rektaszensions- und Deklinationsdifferenz in die mittlere, für den Jahresanfang geltende, übergeführt wird. Die in diesen Formeln auftretenden Koeffizienten j und k sind auf den Seiten 239*—255* enthalten und haben die Bedeutung

$$j = 15\,g \text{ arc } 1'$$
$$k = 15\,h \text{ arc } 1',$$

wobei g und h die auf den Seiten 238*—254* gegebenen Reduktionsgrößen sind.

S. 268* enthält eine Zusammenstellung der von der Deklination abhängenden Faktoren der Formeln auf S. 267*.

S. 269* enthält eine Tafel der numerischen Werte der Funktionen Sinus und Cosinus für in Zeit ausgedrückte Winkel. Ihre Benutzung erleichtert die Berechnung der Formeln auf S. 267*.

Die Seite 270* enthält eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1932.0 auf das Normaläquinoktium 1925.0. Man findet die auf das Normaläquinoktium 1925.0 bezogene Koordinatendifferenz, indem man an der auf das mittlere Äquinoktium 1932.0 bezogenen Rektaszensionsdifferenz die differentielle Präzession Δp_α^s und an der Deklinationsdifferenz die differentielle Präzession $\Delta p_\delta''$ anbringt:

$$\Delta p_\alpha^s = a_1 \operatorname{tg} \delta \cdot \Delta\alpha^m + a_2 \frac{1}{15} \sec^2 \delta \cdot \Delta\delta',$$

$$\Delta p_\delta'' = d_1 \cdot \Delta\alpha^m.$$

Die Koeffizienten a_1, a_2 und d_1 sind in der Tafel auf S. 270* enthalten und haben die Bedeutung

$$a_1 = (n) \operatorname{arc} 1' \cos \alpha$$

$$a_2 = (n) \operatorname{arc} 1' \sin \alpha$$

$$d_1 = -15\,(n) \operatorname{arc} 1' \sin \alpha.$$

$\Delta\alpha^m$ und $\Delta\delta'$ sind die auf das mittlere Äquinoktium 1932.0 bezogenen Rektaszensions- und Deklinationsdifferenzen in Zeit- bez. Bogenminuten. Nach den angegebenen Formeln findet man die differentielle Präzession für Rektaszension in Zeitsekunden, diejenige für Deklination in Bogensekunden.

Die auf den Seiten 271*—272* gegebenen Größen f, $\log g$ und G dienen zur Übertragung der Örter von dem *mittleren* Normaläquinoktium 1925.0 auf das jedesmalige *wahre* Äquinoktium. Die Berücksichtigung des Einflusses der Variatio saecularis bei dieser Übertragung ist durch die Tafel auf S. 273* gegeben. Diese enthält in der ersten Reihe einer jeden Vertikalspalte die Werte von $0.245 \times$ Var. saec. für die mit den Argumenten α und δ gegebenen Örter. Die an zweiter Stelle stehenden Zahlen einer jeden Vertikalspalte sind die einjährigen Änderungen von $0.245 \times$ Var. saec. und sind, wenn erforderlich, bei der Entnahme des Einflusses der Variatio saecularis für den in Frage kommenden Bruchteil des Jahres zu berücksichtigen.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1932.0 auf das Normaläquinoktium 1925.0 befindet sich auf den Seiten 274*—276*.

Die hier tabulierten Größen sind gerechnet nach den Formeln:

$$A = (m) + \frac{\nu^2}{4} \sin 2a$$

$$A_1 = \nu \sin a$$

$$A_2 = \frac{\nu^2}{2} \sin 2a$$

$$D = \nu \cos a$$

$$D_1 = -\frac{\nu^2}{2} \sin^2 a,$$

wobei $\nu = \sin(n)$, $a = \alpha_{1932.0} + 90° - (N)$. Betreffs der Größen (m), (n) und $90° - (N)$ vgl. S. 266*.

Sonnen- und Mondfinsternisse (S. 278*—283*).

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

x, y, $\log\sin d$, $\log\cos d$, μ, l ($l^{(a)}$ für äußere, $l^{(i)}$ für innere Berührung), $\log \operatorname{tang} f$ ($f^{(a)}$ für äußere, $f^{(i)}$ für innere Berührung), x' und y'.

Mit ihnen rechnet man das folgende Formelsystem durch:

$$(1)\quad \begin{cases} \xi = c\cos\varphi\sin(\mu-\lambda) \\ \eta = s\sin\varphi\cos d - c\cos\varphi\sin d\cos(\mu-\lambda) \\ \zeta = s\sin\varphi\sin d + c\cos\varphi\cos d\cos(\mu-\lambda) \\ \xi' = [7.6398-10]\, c\cos\varphi\cos(\mu-\lambda) \\ \eta' = [7.6398-10]\, \xi\sin d, \end{cases}$$

worin φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 348* zu entnehmen sind.

Alsdann:

$$(2)\quad \begin{cases} m\sin M = x - \xi \\ m\cos M = y - \eta \end{cases} m > 0 \qquad \begin{cases} n\sin N = x' - \xi' \\ n\cos N = y' - \eta' \end{cases} n > 0$$

Nun berechnet man aus:

$$(3)\quad L = l - \zeta \operatorname{tang} f$$

$L^{(a)}$ mit $l^{(a)}$ und $f^{(a)}$, $L^{(i)}$ mit $l^{(i)}$ und $f^{(i)}$; dann aus:

$$(4)\quad \sin\psi = \frac{m\sin(M-N)}{L}\ ^{1)}$$

mit $L^{(a)}$ und $L^{(i)}$ je zwei Werte $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$, von denen der eine zum Eintritt der Erde in den Halb- oder Kernschatten-Kegel, der andere zu ihrem Austritt aus ihm gehört. Diesen vier Werten $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$ entsprechen vier Werte $\tau^{(a_1)}$, $\tau^{(a_2)}$ und $\tau^{(i_1)}$, $\tau^{(i_2)}$ (in Zeitminuten) nach

$$(5)\quad \tau = -\frac{m\cos(M-N)}{n} + \frac{L\cos\psi}{n},$$

---

[1]) Wird der Winkel ψ bei der ersten Näherungsrechnung imaginär, so rechne man τ unter der Annahme $\psi = 90°$ aus $\tau = -\frac{m\cos(M-N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

um welche die Ausgangszeit T zu verbessern ist, um die Zeit der gesuchten Phase zu erhalten. Ist T die gesuchte Phasenzeit, so wird $\tau = 0$ werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen solange durchrechnen, bis dieser Fall eintritt, d. h. bis das Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert T_1, für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektion τ_1; dann wiederholt man die Rechnung mit $T_2 = T_1 + \tau_1$, dann mit $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$ u. s. f. bis $\tau_n = 0$ sich ergibt. T_n ist dann die gesuchte Welt-Zeit des Kontaktes, die durch Hinzufügung der Längendifferenz in mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert durchzuführen.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkt größter Deklination nach Osten gezählt, folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach

$$P = N + \psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ abzuziehen, der aus

$$\left.\begin{aligned} p \sin \gamma &= \xi \\ p \cos \gamma &= \eta \end{aligned}\right\} \; p > 0$$

folgt, also

$$Q = P - \gamma.$$

Um die Zeit der größten Phase, T_{max}, zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte $\overline{T}_1$ durchzurechnen, daraus $\overline{T}_2 = \overline{T}_1 - \frac{m \cos(M - N)}{n}$ zu entnehmen und die Rechnung solange fortzusetzen, bis die Korrektion der Ausgangszeit 0 wird. Als Näherungswert $\overline{T}_1$ wählt man zweckmäßig das Mittel der beiden Werte von T_2 für die Berührungszeiten.

Die Größe der Verfinsterung i, in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2\, L^{(a)} - 0.5450},$$

worin $L^{(a)}$ und m die zur Zeit T_{max} gehörigen Werte bedeuten.

Sternbedeckungen (S. 284*—290*)

Die Seiten 284*—287* enthalten die Elemente von Stern- und Planetenbedeckungen durch den Mond, welche in dem Gebiet zwischen den Meridianen 0^h und 2^h östliche Länge von Greenwich und den Breitenkreisen $+45^\circ$ und $+55^\circ$ sichtbar sind. Die Auswahl ist auf Sterne bis zur Größe $6^m.0$ beschränkt.

Mit den in der Zusammenstellung der Elemente gegebenen Werten geschieht die Berechnung der Berührungszeiten eines Sternes mit dem Mondrand für einen Ort mit den geographischen Koordinaten φ und λ (λ positiv, wenn der Beobachtungsort westlich von Greenwich liegt) auf folgende Weise:

Aus der auf den Seiten 284*—287* enthaltenen Welt-Zeit T der geozentrischen Konjunktion von Mond und Stern findet man die Welt-Zeit $T+t$ der topozentrischen Konjunktion durch Berechnung der Größen:

$$h_0 = H - \lambda$$

$$\xi_0 = c \cos\varphi \sin h_0 \qquad \text{(}c\text{ und später }s\text{ aus der Tafel auf S. 348*)}$$

$$\xi' = [9.4192-10]\, c \cos\varphi \cos \frac{4}{3} h_0$$

$$t = \frac{\xi_0}{x' - \xi'}$$

t ergibt sich in Stunden mittlerer Zeit. Das Vorzeichen entspricht dem von h_0.

Für die Zeit $T+t$ berechne man die folgenden Größen, in denen $t_0 = 1.0027\, t$ ist.

$$\xi = c \cos\varphi \sin (h_0 + t_0)$$

$$\eta = s \sin\varphi \cos\delta - c \cos\varphi \sin\delta \cos (h_0 + t_0) = \eta_1 - \eta_2$$

$$\xi' = [9.4192-10]\; c \cos\varphi \cos (h_0 + t_0)$$

$$\eta' = [9.4192-10]\; \xi \sin\delta$$

$$x = x'\, t$$

$$y = Y + y'\, t$$

Aus den Beziehungen:

$$\left.\begin{aligned} m \sin M &= x - \xi \\ m \cos M &= y - \eta \end{aligned}\right\} m > 0$$

$$\left.\begin{aligned} n \sin N &= x' - \xi' \\ n \cos N &= y' - \eta' \end{aligned}\right\} n > 0$$

$$\sin\psi = [0.5646]\, m \sin (M - N),$$

ψ zwischen $+90°$ und $-90°$, berechne man

$$\tau = -\frac{[1.7782]\, m}{n} \cos (M-N) \mp \frac{[1.2135]}{n} \cos\psi$$

$$d\tau = \frac{[6.7591-10]\,\tau^2}{n \cos\psi} [\eta_2 \cos (N \mp \psi) - \xi \sin (N \mp \psi)],$$

wobei die oberen Vorzeichen für den Eintritt, die unteren für den Austritt gelten. Die eingeklammerten Zahlen bedeuten Logarithmen. τ und $d\tau$ ergeben sich in Zeitminuten. Werden die für den Eintritt geltenden Werte mit τ' und $d\tau'$ bezeichnet, die für den Austritt geltenden mit τ'' und $d\tau''$, so ist die Welt-Zeit des

$$\text{Eintritts} = T + t + \tau' + d\tau'$$

$$\text{Austritts} = T + t + \tau'' + d\tau''.$$

Als Kontrolle berechne man die Werte von x, y, ξ, η für die so gefundenen Berührungszeiten. Sind diese richtig, so muß die Beziehung erfüllt sein:

$$\sqrt{(x-\xi)^2 + (y-\eta)^2} = 0.2725$$

Ist $m \sin(M-N) > 0.2725$, so tritt für den betreffenden Beobachtungsort keine Bedeckung des Sternes ein.

Die Positionswinkel des Sternes inbezug auf den Mondmittelpunkt für die Zeiten des Ein- und Austritts folgen aus

$$P_E = N - \psi - dP \text{ für den Eintritt,}$$

$$P_A = N + \psi + dP \pm 180^\circ \text{ für den Austritt,}$$

wobei die Winkel $N-\psi$ und $N+\psi$ aus der Rechnung für $d\tau$ entnommen werden können, und dP in Graden ausgedrückt aus

$$dP = \frac{[7.3038-10]\,\tau^2}{\cos\psi}(\eta_2 \sin N + \xi \cos N)$$

folgt.

Auf den Seiten 288*—290* sind Angaben über die Sternbedeckungen enthalten, die in Berlin-Babelsberg, Königsberg und München sichtbar sind. Außer der genäherten Welt-Zeit des Ein- und Austrittes ist unter P der Positionswinkel des Sterns für die Zeiten der Berührung mit dem Mondrande angeführt.

Die Größen a und b dienen zur Berechnung der genäherten Ein- und Austrittszeiten für andere als die drei angeführten Orte. Sind λ_0 und φ_0 die geographischen Längen und Breiten von Berlin-Babelsberg, Königsberg oder München, λ und φ die Koordinaten irgend eines anderen Ortes innerhalb Deutschlands, so wird für diesen letzteren die Zeit der Berührung des Sterns mit dem Mondrande, wenn man z. B. von den für Berlin-Babelsberg geltenden Angaben ausgeht, gleich der Zeit der Berührung für Berlin-Babelsberg $+ a(\lambda - \lambda_0) + b(\varphi - \varphi_0)$, wobei $\lambda - \lambda_0$ und $\varphi - \varphi_0$ in Einheiten des Grades unter Mitnahme der Zehntelgrade zu verwenden sind, und die Korrektion $a(\lambda-\lambda_0) + b(\varphi-\varphi_0)$ sich in Zeitminuten ergibt.

Die Vorausberechnungen der Sternbedeckungen für Berlin-Babelsberg, Königsberg und München sind von den Herren T. Whitwell und W. A. Forster ausgeführt und von dem Nautical Almanac Office, London, zur Verfügung gestellt worden.

Mondbewegung und Lage des Mondäquators gegen den Erdäquator (S. 291*).

Auf S. 291* finden sich:

☊, Aufsteigender Knoten der Mondbahn auf der Ekliptik
$L_☾$, Mittlere Länge des Mondes
$M_☾$, Mittlere Anomalie des Mondes
i, Neigung des Mondäquators gegen den Erdäquator
☊′, Aufsteigender Knoten des Mondäquators auf dem Erdäquator
Δ, Stück des Mondäquators zwischen Ekliptik und Erdäquator

☋, der aufsteigende Knoten des Mondäquators auf der Ekliptik, ist gleich dem absteigenden Knoten der Mondbahn, also

$$☋ = ☊ \pm 180^\circ.$$

Vom Jahrgang 1926 ab sind die Brownschen Mondtafeln verwendet.

Die Größen i, Δ und Ω' berechnen sich aus:

$$\sin\frac{1}{2}(\Delta+\Omega')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon-J)\sin\frac{1}{2}\vartheta$$

$$\cos\frac{1}{2}(\Delta+\Omega')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon+J)\cos\frac{1}{2}\vartheta$$

$$\sin\frac{1}{2}(\Delta-\Omega')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon-J)\sin\frac{1}{2}\vartheta$$

$$\cos\frac{1}{2}(\Delta-\Omega')\sin\frac{1}{2}i = \sin\frac{1}{2}(\varepsilon+J)\cos\frac{1}{2}\vartheta;$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. **199**, S. 263) zu $J = 1^\circ\,32'\,20''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 291* gemachten Angaben über die Elemente der Mondbahn und des Mondäquators werden, teilweise in Verbindung mit den Größen $L_\odot$ und $M_\odot$ auf S. 38, zu verschiedenen Zwecken verwendet:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 7 (S. 377*) gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ϱ, σ haben die Werte:

$$\tau = -\ 13''\sin M_{☾} + 65''\sin M_\odot + 26''\sin 2(L_{☾} - M_{☾} - \Omega)$$

$$\varrho = -106''\cos M_{☾} + 34''\cos(2L_{☾} - M_{☾} - 2\Omega) - 11''\cos 2(L_{☾} - \Omega)$$

$$\sigma\sin J = -108''\sin M_{☾} + 34''\sin(2L_{☾} - M_{☾} - 2\Omega) - 11''\sin 2(L_{☾} - \Omega)$$

Diese Zahlenangaben beruhen auf der Annahme $f = 0.73$, worüber F. Hayn (Astr. Nachr. Bd. **199**, S. 264) einzusehen ist.

Ephemeride für den Mondkrater Mösting A.
(S. 292*—296*).

Die Ephemeride des Mondkraters Mösting A. dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 0^h Welt-Zeit und enthält für die Tage, an welchen Mösting A innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_{☾} - \alpha_k$ in Rektaszension und $\delta_{☾} - \delta_k$ in Deklination zwischen der

Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_☾ - \alpha_k$, $\delta_☾ - \delta_k$ und $\log \sin p_k$ mit der Beobachtungszeit. Fügt man alsdann $\alpha_☾ - \alpha_k$ und $\delta_☾ - \delta_k$ zum geozentrischen Ort des Kraters (die Parallaxe wird mit p_k und δ_k, der Deklination des Kraters, berechnet), so hat man die geozentrische Rektaszension und Deklination des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A. angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_☾ - \alpha'_k$ und $\delta'_☾ - \delta'_k$ zwischen Mondmittelpunkt und Mösting A. aus folgenden Identitäten:

$$\alpha'_☾ - \alpha'_k = \alpha_☾ - \alpha_k + (\alpha'_☾ - \alpha_☾) - (\alpha'_k - \alpha_k)$$
$$\delta'_☾ - \delta'_k = \delta_☾ - \delta_k + (\delta'_☾ - \delta_☾) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A. mit den mikrometrischen Messungen zwischen Mösting A. und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von $\alpha'_☾$ und $\delta'_☾$ und den Angaben auf Seite 291* die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A. angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_☾) \cos \frac{1}{2} (\delta' + \delta'_☾)$$
$$s \cos \pi_m = \delta' - \delta'_☾$$
$$\pi = \pi_m - \frac{1}{2} (\alpha' - \alpha'_☾) \sin \frac{1}{2} (\delta' + \delta'_☾)$$
$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h, dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers 15′ 32″.59 (nach J. Peters, Astr. Nachr. Bd. **138**, S. 147) eingesetzt werden.

$$\sin d = -\sin \delta'_☾ \cos K + \cos \delta'_☾ \sin K \cos \pi$$
$$\cos d \cos (a - \alpha'_☾) = -\cos \delta'_☾ \cos K - \sin \delta'_☾ \sin K \cos \pi$$
$$\cos d \sin (a - \alpha'_☾) = \sin K \sin \pi$$
$$\sin \beta = \sin d \cos i - \cos d \sin i \sin (a - ☊')$$
$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin (a - ☊')$$
$$\cos \beta \cos \lambda' = \cos d \cos (a - ☊')$$
$$\lambda = \lambda' - 180° - L_☾ - (\varDelta - ☋).$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +13'' \sin M_{☾} - 65'' \sin M_{\odot} - 26'' \sin 2(L_{☾} - M_{☾} - \Omega)$$
$$+ \operatorname{tg}\beta\,[-106'' \cos(L_{☾} - M_{☾} - \Omega + \lambda) + 34'' \cos(L_{☾} - M_{☾} - \Omega - \lambda)$$
$$- 11'' \cos(L_{☾} - \Omega - \lambda)]$$
$$d\beta = +108'' \sin(L_{☾} - M_{☾} - \Omega + \lambda) + 34'' \sin(L_{☾} - M_{☾} - \Omega - \lambda)$$
$$- 11'' \sin(L_{☾} - \Omega - \lambda)$$

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A. liegen folgende von F. Hayn ermittelten Konstanten (Astr. Nachr. Bd. **199**, S. 263) zugrunde:

$$\lambda_0 = -5^\circ\,10'\,7'', \qquad \beta_0 = -3^\circ\,11'\,2''$$
$$h = 15'\,33''.4$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -13'' \sin M_{☾} + 65'' \sin M_{\odot} + 26'' \sin 2(L_{☾} - M_{☾} - \Omega)$$
$$d\beta = -108'' \sin(L_{☾} - M_{☾} - \Omega + \lambda_0) - 34'' \sin(L_{☾} - M_{☾} - \Omega - \lambda_0)$$
$$+ 11'' \sin(L_{☾} - \Omega - \lambda_0),$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A. sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

Jupitertrabanten (S. 297*—298*).

Die Seiten 297* und 298* enthalten die Zeitangaben (in Welt-Zeit) für die Verfinsterungen der vier hellen Jupitertrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

Saturnsring (S. 299*—302*, 315*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Kleine Achse des Saturn.

p_a Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.

N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.

J Neigung der Ringebene gegen den Erdäquator.

ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach H. Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial $17''.47$ Polar $15''.65$

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25

$$\Omega_1 = 167^\circ\ 57'.0 \quad \text{und} \quad i_1 = 28^\circ\ 5'.6;$$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35$$

Saturnstrabanten (S. 303*—326*).

Die Berechnungen über die Saturnstrabanten sind mit den von H. Struve in:

I. Beobachtungen der Saturnstrabanten, 1. Abteilung, 1. Supplementheft zu den »*Observations de Poulkova*«;

II. *Publications de l'Observatoire Central Nicolas*, Série II, Vol. **XI** abgeleiteten, in Astr. Nachr. Bd. **162**, S. 325 u. ff. und von G. Struve in Veröff. Berlin-Babelsberg **VI.** 1 weiter verbesserten Elementen durchgeführt. Für die Halbachsen der 6 inneren Trabanten sind die auf Seite 239 der zweiten Abhandlung mittels der Saturnsmasse $= \frac{1}{3500}$ rechnerisch abgeleiteten Werte angenommen.

Die den Ephemeriden zugrunde liegenden Elemente sind:

MIMAS (II, Seite 195)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 127^\circ\ 19'.0$

$n = 381^\circ.9945$

$\delta l = -\ 44^\circ.243 \sin(116^\circ.46 + 5^\circ.075\, t)$
$\quad -\ 0^\circ.75 \sin 3\ (116^\circ.46 + 5^\circ.075$

$l_1 = E_0 + n t_d + \delta l$

$\Theta = 54^\circ.7 - 365^\circ.3\, t$

$\gamma = 1^\circ\ 36'.5$

$\Pi_1 = 107^\circ.2 + 365^\circ.3\, t$

$e = 0.0190$

$a = 26''.814$

ENCELADUS (II, Seite 183)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 199^\circ\ 19'.8$

$n = 262^\circ.73199$

$\delta l = +\ 11'.24 \sin(143^\circ + 92^\circ.4\, t)$
$\quad +\ 20'.0 \sin(\ 75^\circ + 29^\circ.3\, t)$

$l_1 = E_0 + n t_d + \delta l$

$\Theta = 328^\circ - 152^\circ.7\, t$

$\gamma = 1'.4$

$\Pi_1 = 308^\circ.38 + 123^\circ.43\, t$

$e = 0.0046$

$a = 34''.401$

TETHYS (II, Seite 195)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 284^\circ\ 31'.0$

$n = 190^\circ.69795$

$\delta l = +\ 118'.90 \sin(116^\circ.46 + 5^\circ.075\, t)$
$\quad +\ 2'.02 \sin 3\ (116^\circ.46 + 5^\circ.075\, t)$

$l_1 = E_0 + n t_d + \delta l$

$\Theta = 110^\circ.55 - 72^\circ.5\, t$

$\gamma = 1^\circ\ 4'.36$

$e = 0.0000$

$a = 42''.586$

DIONE (II, Seite 183)

Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 253^\circ\ 51'.4$

$n = 131^\circ.534955$

$\delta l = -\ 1'.21 \sin(143^\circ + 92^\circ.4\, t)$
$\quad -\ 2'.13 \sin(\ 75^\circ + 29^\circ.3\, t)$

$l_1 = E_0 + n t_d + \delta l$

$\Theta = 276^\circ - 31^\circ.0\, t$
$\gamma = 4'.0$
$\Pi_1 = 165^\circ + 31^\circ.0\, t$
$e = 0.0020$
$a = 54''.543$

RHEA (G. Struve, Berlin-Bbg. VI, 1, Seite 16)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$E_0 = 358^\circ\ 23'.8$
$n = 79^\circ.690087$
$E - E_0 = + 4'.95 \sin (343^\circ.4 - 10^\circ.1\, t)$
$l = E_0 + n t_d + (E - E_0)$
$(\Omega - \Omega_1) \sin i_1 = 20'.74 \sin (343^\circ.36 - 10^\circ.10 t) - 0'.38 + 1'.00 \sin (48^\circ.5 - 0^\circ.50 t)$
$i - i_1 = 20'.74 \cos (343^\circ.36 - 10^\circ.10 t) - 2'.79 + 1'.00 \cos (48^\circ.5 - 0^\circ.50 t)$
$\Pi = 276^\circ.25 + 0^\circ.53\, t + 17^\circ.64 \sin [9^\circ.5\ (t - 1879.59)]$
$e = 0.00098 + 0.00030 \cos [9^\circ.5\ (t - 1879.59)]$
$a = 76''.170$
Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

TITAN (II, Seite 172)
Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$E_0 = 260^\circ\ 25'.1$
$n = 22^\circ.577009$
$E - E_0 = + 4'.05 \sin (47^\circ.8 - 0^\circ.51\, t)$
$l = E_0 + n t_d + (E - E_0)$
$\Omega = 167^\circ\ 51'.2 + 35'.84 \sin (47^\circ.8 - 0^\circ.506\, t) + 0'.837\, t$
$i = 27^\circ\ 28'.4 + 16'.88 \cos (47^\circ.8 - 0^\circ.506\, t)$
$\Pi = 276^\circ\ 15' + 31'.7\, t + 22'.0 (\sin 2g - \sin 2g_0)$
$e = 0.02886 + 0.000186\ (\cos 2g_0 - \cos 2g)$
$g = \Pi - \Omega - 4^\circ.5$
$g_0 = g$ für $t = 0$
$a = 176''.578$

HYPERION (II, Seite 290)
Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$E_0 = 304^\circ.53$
$n = 16^\circ.919983$
$\delta l = 9^\circ.16 \sin (200^\circ.5 + 0^\circ.56206\, t_d)$
$l = E_0 + n t_d + \delta l$
Äquinoktium 1890.0 Epoche $1890.0 + t$
$\Omega = 167^\circ\ 49'.7 + 42'.4 \sin (47^\circ.8 - 0^\circ.50 t) + 78'.1 \sin (121^\circ.7 - 2^\circ.0 t)$
$i = 27^\circ\ 20'.8 + 19'.6 \cos (47^\circ.8 - 0^\circ.50 t) + 36'.2 \cos (121^\circ.7 - 2^\circ.0 t)$

Epoche und Äquinoktium: 1888.890 + t

$$\Pi = 276^\circ.50 - 18^\circ.663\,t + 14^\circ.0 \sin(-0^\circ.84 + 19^\circ.191\,t) - 1^\circ.5 \sin(-1^\circ.68 + 38^\circ.382\,t)$$

$$e = 0.1043 + 0.0230 \cos(-0^\circ.84 + 19^\circ.191\,t) + \delta e$$

Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$$e\delta e = -0.00044 \cos(200^\circ.5 + 0^\circ.56206\,t_d)$$

$$a = 213''.92 + \delta a$$

$$\delta a = -0.00354\,a \cos(200^\circ.5 + 0^\circ.56206\,t_d).$$

JAPETUS (I, Seite 87; II, Seite 139)

Epoche: 1885 Sept. 1.0 Mittl. Zt. Grw.

$E_0 = 75^\circ\ 26'.4$

$n = 4^\circ.537997$

$l = E_0 + n\,t_d$

$\Omega = 142^\circ\ 12'.4 - 1'.48\,t$

$i = 18^\circ\ 28'.3 - 0'.54\,t$

$\Pi = 354^\circ\ 30' + 7'.9\,t$

$e = 0.02836 + 0.000015\,t$

$a = 514''.59$

Hierin bedeuten:

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
Ω = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\Delta) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Zunächst sind für die sechs inneren Trabanten auf den Seiten 303* bis 311* die Hilfsmittel gegeben, um in bequemer Weise ihre Positionen ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta}\,\frac{1}{1+\zeta}\,\frac{r}{a}\,\sin(u - U)$$

$$y = \frac{a(\Delta)}{\Delta}\,\frac{1}{1+\zeta}\,\frac{r}{a}\,\sin B \cos(u - U).$$

$(\varDelta) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, $\varDelta$ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt. Die Größen L und $(v-M)$ sind auf den Seiten 303*—311* und 312*—313* zu finden. $\log \frac{1}{1+\zeta}$ ist auf Seite 315* enthalten.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\varDelta)}{\varDelta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\varDelta)}{\varDelta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \left[\cos(u - U) + \sin\gamma \operatorname{cotg} B \sin(u - \vartheta)\right].$$

Die Werte von ϑ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich auf Seite 315*; auch ist hier für Rhea γ, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$

$$s \cos(p - P) = y$$

$$\varDelta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$

$$\varDelta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 316*—321* finden sich für die äußeren Trabanten Hyperion und Japetus, außer den Hilfsgrößen U, B und P, die genäherten Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet.

Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind auf das mittlere Äquinoktium der Epoche bezogen.

Zum Schluß enthalten die Seiten 322*—326* die Zeitangaben (in Welt-Zeit) für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen $(u - U = \pm 90^\circ)$ und für die oberen und unteren Konjunktionen $(u - U = 0^\circ, 180^\circ)$ von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 327*—328*).

In der Übersicht der Konstellationen des Jahres 1932 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne und Mond, sowie die Angaben der Epochen, zu welchen

sich die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Die Angaben über Konjunktion und Opposition der Planeten mit der Sonne entsprechen den Zeiten, zu denen der Längenunterschied zwischen Planet und Sonne 0° oder 180° ist.

Hilfstafeln (S. 329*—348*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 329*—331*).

a) Präzession in Rektaszension und Deklination (Seite 329*)

$$p_\alpha = m + \tfrac{1}{15} n \sin \alpha \operatorname{tg} \delta$$
$$p_\delta = n \cos \alpha$$

b) Präzessionswerte m, n, ψ, π, Π und ε, die mittlere Schiefe der Ekliptik (Seite 329*).

Mit diesen Werten berechnet sich die Präzession für die Elemente einer Bahnebene im System der Ekliptik nach:

$$p_{\Omega} = \psi - \pi \operatorname{cotg} i \sin (\Pi - \Omega)$$
$$p_i = - \pi \cos (\Pi - \Omega)$$
$$p_\omega = \pi \operatorname{cosec} i \sin (\Pi - \Omega)$$

und im System des Äquators nach:

$$p_{\Omega'} = m - n \operatorname{cotg} i' \cos \Omega'$$
$$p_{i'} = - n \sin \Omega'$$
$$p_{\omega'} = n \cos \Omega' \operatorname{cosec} i'$$

c) Präzession in Länge und Breite (Seite 330*—331*).

$$p_\lambda = \psi + \pi \operatorname{tg} \beta \cos (\Pi - \lambda)$$
$$p_\beta = \pi \sin (\Pi - \lambda)$$

Den Tafeln a) und c) liegen die Präzessionswerte für 1925.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

2) Tafel des halben Tagbogens (S. 332*—333*), berechnet mit der Horizontalrefraktion 34'.9 für geographische Breiten von + 30° bis + 60° und Deklinationen von — 30° bis + 30°.

3) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 334*—337*). Sie geben die Reduktion der für + 50° Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen +30° und +60° und sind mit der Horizontalrefraktion 34'.9 für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

4) Eine Tafel für die Ermittelung eines Datums in der Julianischen Periode (Seite 338*—341*). Die Tafel besteht aus zwei Teilen: Der erste Teil (S. 338*—339*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage. Man gehe bis zum 4. Oktober des Jahres 1582 mit dem Datum des Julianischen, für spätere Jahre mit dem Datum des Gregorianischen Kalenders in die Tafel ein. Der zweite Teil (S. 340*—341*) gibt für die Jahre 1860—1939 unmittelbar die Anzahl der im Gregorianischen Kalender am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Julianischen Periode verflossenen Tage.

5) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzeit (S. 342*) und von Sternzeit in Mittlere Zeit (S. 343*).

6) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 344*—345*).

7) Die Tafel zur Berechnung der optischen Mondlibration (S. 346*—347*) gibt mit dem Argument $\lambda - \Omega$ die Werte $\Delta\lambda$, a und B entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\text{arc } 1'} \text{tang}^2 \frac{1}{2} J \sin 2(\lambda - \Omega)$$
$$a = -\cos(\lambda - \Omega) \sin J$$
$$\text{tang } B = -\sin(\lambda - \Omega) \text{ tang } J$$

J = Neigung des Mondäquators gegen die Ekliptik.
Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 292*).
λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch $L_{☾}$ die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_{☾} + \Delta\lambda - a(B - \beta)$$
$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos(L_{☾} + l' + \Delta - ℧)}{\cos \delta_{☾}} = -\sin i \frac{\cos(\alpha_{☾} - \Omega')}{\cos b'},$$

worin $\alpha_{☾}$, $\delta_{☾}$ Rektaszension und Deklination des Mondmittelpunktes, gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen i, Δ, ℧ und Ω' haben schon auf S. 367* ihre Erklärung gefunden.

8) Eine Tafel der Hilfsgrößen s und c (S. 348*) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ϱ eines Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$
$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1 - e^2}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad c = \frac{1}{\sqrt{1 - e^2 \sin^2 \varphi}}, \quad e = \sqrt{2\alpha - \alpha^2}.$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\alpha = \frac{1}{297.0}$ angenommen.

Koordinaten der Sternwarten (S. 349*—355*).

Die Seiten 349*—355* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend gibt die »Korrektion der Sternzeit« die Differenz: Orts-Sternzeit minus Greenwicher Sternzeit an.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1 : 297.0 berechnet.

Bei Berechnung von $\log \varrho$ ist die Seehöhe berücksichtigt.

Normalzeiten der wichtigeren Länder (S. 356*).

Auf S. 356* sind die in den wichtigeren Ländern eingeführten Normalzeiten in zwei Gruppen zusammengestellt, je nachdem sie an den Meridian von Greenwich angeschlossen sind oder einen eigenen Landes-Meridian zugrunde legen.

Berichtigungen.

Jahrbuch 1927—1932 Scheinbare Sternörter, Stern 516) τ Virginis. Der Wert von sec δ ist 1.001 anstatt 1.000.

Jahrbuch 1929, S. 34 Oktober 28 0^h. Der Wert von X ist —0.8227639 und die dazu gehörigen Differenzen sind 4 9292 und 4 9915.

Jahrbuch 1931, S. 84 Die Rektaszension des Mars am 32. Dezember ist $19^h\ 13^m\ 10^s.26$ anstatt $10^s.30$. Die dazu gehörige Differenz wird $3^m\ 20^s.82$.

Jahrbuch 1932, S. 11* Zeile 13 von oben, erste Spalte. Die Nummer von Hydrae 183 G. ist 373 anstatt 733.

S. 69* Stern 281) δ Volantis. In der Spalte für die Deklination muß es am 25. November heißen: $42''.48$ anstatt $42''.45$. Für die über und unter diesem Wert stehenden Differenzen lies 272 und 316 anstatt 269 und 319.

S. 156* Stern 848) 7 Lacertae letzte Zeile. Der Wert von b ist +0.07.

Alphabetisches Sachregister